CY 2013 MEDICARE PLAN FINDER OUT-OF-POCKET COST ESTIMATES METHODOLOGY

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1. Introduction

The Centers for Medicare & Medicaid Services (CMS) defined and developed the process, data sources, and algorithms necessary to populate the Medicare Plan Finder (MPF) Out-of-Pocket Cost (OOPC) database for Original Medicare (OM), Medicare Advantage with Prescription Drug (MA-PD), Medicare Advantage Only (MA-Only) and Medigap plans. Working with the Center for Beneficiary Choices (CBC), the Office of Research, Development & Information (ORDI), and the Office of the Actuary (OACT), Fu Associates, Ltd. defined a cohort of OM individuals based on the 2008 and 2009 Medicare Current Beneficiary Surveys (MCBS).

This cohort provides the basis from which to identify the utilization measures and OOPC estimates for the MPF OOPC database. The nationally representative cohort used to populate five categories, each based on a self-reported health status, in the MPF OOPC database.² The Medicare Current Beneficiary Survey (MCBS) events and claims for the designated cohort were reviewed to develop the beneficiaries' utilization measures and estimate OOPCs under all the above plans.

Where necessary, Fu Associates, Ltd., inflated the out-of-pocket costs to reflect 2013 costs using inflation factors provided by OACT. In general, costs were inflated based on service-based inflation factors. Part D outpatient drug calculations applied average prices from the Medicare Prescription Drug Event (PDE) claims data (2011). The Contract Year (CY) 2013 Plan Benefit Packages (PBPs) were used to define the OOPCs associated with CY 2013 Medicare Advantage-Prescription Drug (MA-PD, PDP, and MA-Only) plans. Beginning with estimates for 2013, the OM (and Medigap) plan calculations were carried out in parallel with MA plans—as defined by the PBP data structures. The OM and Medigap plans were defined using the same cost-sharing PBP variables used to determine MA plan OOPCs. Premiums, deductibles, and selected OM copayments used 2013 Medicare-announced data. These costs formed the basis for the OM component of the MPF OOPC database. All PBP cost-share data are provided in 2013 dollars. Finally, Medigap premium data were used to define the OOPCs for CY 2013 Medigap plans.

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¹ Original Medicare was formerly known as Fee-for-Service (FFS). The Medicare Plan Finder (MPF) was formerly known as Medicare Options Compare (MOC).

² For purposes of display on the MPF, only three health status groups are now used: Excellent, Good, and Poor.

2. Selection of the MPF Cohort Based on the 2008 and 2009 MCBS

Fu Associates, Ltd. reviewed the variables in the 2008 and 2009 MCBS files and used this information to develop an Original Medicare (OM) cohort for the MPF. The OM cohort provides the baseline from which the MPF OOPC database was developed. Appendix A provides a basic description and record counts for the MCBS files used.

2.1 Screening Process

Certain criteria were used to either include or exclude beneficiaries in the OM cohort. Assignment to a particular cell was based on the beneficiary's health status. The following screening criteria were used to establish the final cohort. As development of accurate out-of-pocket estimates require the availability of all utilization during the year, beneficiaries who did not meet certain criteria were excluded from the final cohort:

- 1. Beneficiaries who did not complete at least one survey interview; beneficiaries newly enrolled in Medicare during the year were not included in the final cohort. They may have generated Medicare claims during the year, but they were not part of the survey process; their survey data had to be imputed using data for beneficiaries who were enrolled during the entire year. The data for these new enrollees, therefore, do not represent their utilization but rather the utilization of other beneficiaries. As a result, these beneficiaries were not included in the calculation of OOPCs.
- 2. Beneficiaries interviewed in a facility were excluded from the cohort due to potentially insufficient utilization data;
- 3. Beneficiaries, whose health status was missing, were excluded from the cohort because they could not be mapped into a health status category;
- 4. Beneficiaries who were not enrolled in Medicare Parts A & B for all twelve months in 2008 or 2009, respectively, or until death, were excluded from the cohort due to potentially insufficient utilization data;
- 5. Beneficiaries with one or more months of Medicare Managed Care enrollment were excluded from the cohort due to potentially insufficient utilization data;
- 6. Beneficiaries with a Medicare status of End-Stage Renal Disease (ESRD) were excluded from the cohort due to the inability to join an MA-PD or MA plan;
- 7. Beneficiaries with hospice utilization were excluded from the cohort since the payment for these beneficiaries is based on excess savings and not a capitated rate;
- 8. Beneficiaries who did not complete the entire survey were excluded from the cohort due to potentially insufficient data;
- 9. Beneficiaries with Veterans Administration (VA) insurance were excluded from the cohort due to potentially insufficient utilization data; and
- 10. "Ghosts," or beneficiaries newly enrolled in Medicare in 2008 or 2009 with claims and imputed survey data, were excluded from the cohort because their utilization duplicated that of other beneficiaries included in the cohort.

In contrast, the following screening criteria were used to establish the final cohort of beneficiaries who were included in the final cohort largely because they died during the year but had met all other criteria. Both Medigap and Managed Care (now referred to as Medicare Advantage) Organizations price their insurance based on the assumption that some beneficiaries will die during the year and have higher utilization than average. Therefore, beneficiaries who died during the year were included in the calculation of OOPCs.

2.2 Screening Results

The number of beneficiaries excluded from each cohort as a result of the screening criteria is provided in the following tables.

| Table 2.1 - Screening Results 2008 MCBS | | | | |
|---|-------------------------------------|--|--|--|
| Screening Criteria | Number of Beneficiaries Excluded | | | |
| 1. Beneficiaries who did not complete at least one survey interview | 1,532 | | | |
| 2. Beneficiaries interviewed in a facility | 664 | | | |
| 3. Beneficiaries with a health status other than Excellent, Very Good, Good, Fair, and Poor | 83 | | | |
| 4. Beneficiaries with less than 12 months of Part A/B enrollment | 866 | | | |
| 5. Beneficiaries with some MA-PD or MA coverage | 4,026 | | | |
| 6. Beneficiaries with ESRD status | 93 | | | |
| 7. Beneficiaries with one or more hospice payments | 183 | | | |
| 8. Beneficiaries with an incomplete survey | 880 | | | |
| 9. Beneficiaries with VA insurance | 664 | | | |
| 10.Ghost beneficiaries | 618 | | | |
| Total number of beneficiaries excluded | 5,461* | | | |

| Table 2.2 - Screening Results 2009 MCBS | | | | |
|---|-------------------------------------|--|--|--|
| Screening Criteria | Number of Beneficiaries Excluded | | | |
| Beneficiaries who did not complete at least one survey interview | 1,537 | | | |
| 2. Beneficiaries interviewed in a facility | 751 | | | |
| 3. Beneficiaries with a health status other than Excellent, Very Good, Good, Fair, and Poor | 79 | | | |
| 4. Beneficiaries with less than 12 months of Part A/B enrollment | 838 | | | |
| 5. Beneficiaries with some MA-PD or MA coverage | 4,011 | | | |
| 6. Beneficiaries with ESRD status | 102 | | | |
| 7. Beneficiaries with one or more hospice payments | 167 | | | |
| 8. Beneficiaries with an incomplete survey | 945 | | | |
| 9. Beneficiaries with VA insurance | 634 | | | |
| 10.Ghost beneficiaries | 704 | | | |
| Total number of beneficiaries excluded | 5,366* | | | |

^{*} Note: Beneficiaries could have qualified for more than one screening criteria, in which case, the criteria used to screen beneficiaries from the final MPF cohort may NOT be mutually exclusive.

2.2.1 Final MPF Original Medicare Cohort

Of the 10,853 beneficiaries in the 2008 MCBS file, 5,392 were retained in the final cohort that populates the five health status—Excellent, Very Good, Good, Fair, and Poor—cells in the MPF OOPC database. Of the 10,070 beneficiaries in the 2009 MCBS file, 4,704 beneficiaries were used to populate the five health status cells in the OOPC database. Combined, the final FFS cohort thus consists of 10,096 beneficiaries. The following table shows the number of beneficiaries in the 2008/2009 Medicare OM cohort by health status.

| Table 2.3 – 2008/2009 Original Medicare Beneficiaries in Cohort by Health Status | | | | | | |
|--|------------|-----------|-------|-------|-------|--------|
| Health Status | Excellent* | Very Good | Good* | Fair | Poor* | TOTAL |
| Number of Beneficiaries | 1,356 | 2,801 | 3,299 | 1,895 | 745 | 10,096 |

^{*} Note: The three health status groups with the asterisks are used for display on the MPF.

Data for all 10,096 beneficiaries in the OM cohort was used to develop the baseline MPF utilization measures and OOPC estimates. According to past CMS analysis, the OM cohort is large enough to be nationally representative of the Medicare population in the MCBS (e.g., beneficiaries who are enrolled in both Parts A and B; beneficiaries who are not enrolled in managed care).

3. Development of Out-of-Pocket Cost Estimates

The following assumptions were made as a result of ongoing analysis of MCBS and PBP data, Medigap policies and plans, and CMS requirements to design and develop OOPC estimates for the MPF. These assumptions provide a baseline of the out-of-pocket design and development process and will be modified as the process is refined.

3.1 General Assumptions

- 1. Actual OOPC estimates are displayed in dollar values and dollar ranges through the MPF, based upon ranges established by CMS.
- 2. OOPC estimates are displayed as "Monthly" and "Annual," and were calculated based on the number of months enrolled for each beneficiary in the cohort.
- 3. MCBS events and claims for the designated cohort were reviewed to develop the beneficiaries' utilization measures and estimate OOPCs.
- 4. MCBS sample weights were applied to each of the beneficiaries included in the final MPF cohort as part of the development of the OOPCs for OM Medicare, Medigap plans, and MAPD or MA plans.
- 5. Mean OOPCs for each plan were produced for each health status cell. Where OOPCs for persons with chronic illnesses are displayed, costs for all beneficiaries—not just those in a specific cell group—were produced.
- 6. The 2008 and 2009 costs for Physician/Supplier events were inflated to 2013 costs using Berenson-Eggers Type of Service (BETOS) code inflation factors; all Health Care Procedure Codes (HCPCs) within a BETOS code are inflated by that same BETOS rate. These inflation factors were provided by OACT.
- 7. Long-term care costs were not included in the development of the OOPC estimates.
- 8. Skilled Nursing Facility (SNF) services were included in the development of the OOPC estimates.
- 9. Multiple records exist in the Record Identification Code (RIC) files that contain the same values for all data fields. According to CMS/ORDI, one of the perverse elements of a medical expenditure survey, such as the MCBS, is that the interview is frequently most demanding for those who are the sickest, since the interview length is dependent upon the amount of medical utilization reported. To reduce the reporting burden, the MCBS design allows individuals to report repeated utilization in a summary manner. For example, if an individual has physical therapy multiple times a week for several weeks, MCBS captures the utilization in summary form. This summary data was used to generate the correct number of events as part of the back-end processing. Often events generated from summary data appear to be duplicates, since each event will have the same begin and end date. These records are not mistakes; rather, they demonstrate how repeat utilization was collected and processed. As such, the information was included in the analysis.
- 10. The event-level data in the Medical Provider Event (MPE) file was not used because the previous data provided limited information for mapping an event to a PBP benefit.

3.2 Assumptions Related to the Calculation of Medicare Original Medicare Out-of-Pocket Cost Estimates

- 1. Beneficiaries enrolled in OM do not have any insurance other than Medicare.
- 2. Beneficiaries have enrolled in Medicare Part B at age 65.
- 3. Beneficiaries go to providers who accept Medicare assignment (i.e., no balance billing).
- 4. The MPF includes OOPC estimates for some non-Medicare covered benefits (i.e., drugs and dental services).
- 5. The MPF uses the MCBS total costs for utilization of non-Medicare covered services in selected event files (i.e., dental services).
- 6. Total OOPCs are equal to the monthly Part B premium amounts for a year, plus the sum of Inpatient Hospital, SNF, Drugs, Dental, Outpatient, Home Health, Physician/Supplier, and Durable Medical Equipment (DME) services.
- 7. The OM calculation applies Medicare-defined deductibles, copayments, and premiums to MBCS reported utilization using PBP-defined variables.

3.3 Assumptions Related to the Calculation of MA-PD or MA Out-of-Pocket Cost Estimates

- 1. Where applicable, the MPF used the PBP cost shares for in-network services to calculate OOPC estimates for benefits.
- 2. If the PBP cost sharing used coinsurance (i.e., percentages), the coinsurance basis is the reported MCBS Total Amount.
- 3. The costs for Optional Supplemental benefits were not included in the calculation of OOPCs.
- 4. Information collected in the PBP Notes fields is not included in the calculation of OOPCs.
- 5. Utilization of Outpatient services, Physician/Supplier services, and DME benefits was mapped into a PBP service category based on the information provided on the bill. In most instances, services that occurred on the same day and appeared to be related were linked together into a single benefit.
- 6. The MPF calculation applies the service-category deductibles to annualized costs.
- 7. For benefits with a minimum and maximum cost share, the minimum cost-share amount was used to calculate the OOPC estimate.
- 8. The calculation of the category cost equals the sum of the co-pay amount, plus the coinsurance amount, plus the category deductible.
- 9. If a plan indicates there is a service-category specific deductible amount, then that deductible amount is used to reduce the total costs for calculating the cost shares, and then added back in to determine the total cost for the category.
- 10. If a plan indicates that there is a service-category specific maximum enrollee out-of-pocket amount, then the calculated MA-PD or MA cost for that category was compared to the service category specific maximum, and the lesser of the two was used as the OOPC. For example, if the beneficiary's calculated OOPC for lab services totals \$600, but the plan limits the enrollee's OOP cost to \$500, then the OOPC estimate uses the \$500 rather than the \$600.
- 11. The plan-level maximum enrollee out-of-pocket amount for both In-Network Medicare and Non-Medicare services was included in the calculations. The calculated MA-PD or MA cost for the overall plan or subset of PBP service categories was compared to the appropriate

plan-level maximum, and the lesser of the calculated cost or the maximum was used as the OOPC. For example, if the beneficiary's calculated OOPC for all services except prescription drugs and dental services totals \$1,300, but the plan-level maximum enrollee out-of-pocket amount limits the OOP cost for all services except prescription drugs and dental services to \$1,000, then the plan OOPC estimate equals the \$1,000 limit plus the service-category specific costs for drugs and dental services. This calculation was applied to Medicare only or all benefits, as designated by the plan. If a separate maximum amount was indicated for Medicare only benefits, then this amount was compared to the costs for Medicare only benefits, and the lesser of the two was used.

- 12. If a plan indicates that there is a plan-level deductible amount, then this deductible amount is used to reduce the total amount for services that is subject to cost sharing, and the deductible (or portion used) is included in the out-of-pocket costs calculated for each beneficiary.³
- 13. For Medicare Medical Savings Account Plans (MSA), assume the CMS annual contribution amount is used towards meeting the deductible, and then the remainder (if available) is applied to Medicare eligible expenses (non-covered inpatient or SNF care, dental, and/or prescription drugs). Cost shares for Medicare-covered services are zero once the deductible is met.
- 14. If a service/benefit is covered by Medicare ("allowed"), then it was included in the calculation. If a service/benefit is not covered by Medicare ("denied"), then it was excluded from the calculation.
- 15. OOPCs are not estimated for Medicare-Medigap Plans or Dual Eligible Special Needs Plans (SNP).
- 16. MA plans with Medicare-defined benefits have calculations carried out identically as for the OM plan.

3.3.1 Service Category Specific Assumptions for Calculation of Out-of-Pocket Cost Estimates

Inpatient Hospital

The calculation of the OOPC estimate for the Inpatient Hospital-Acute and Inpatient Psychiatric Hospital Service Category benefits were based on the following assumptions:

- 1. Each event in the MCBS Inpatient Event (IPE) file is considered one hospital stay.
- 2. MCBS events with a source of "Survey only" are excluded from the analysis.
- 3. Inpatient Psychiatric Hospital stays were identified using the Provider Number on the claim.
- 4. Inpatient Psychiatric Hospital costs were calculated separately in the MA-PD or MA OOPC estimates.
- 5. The MCBS Total Expenditures are equal to the total charge for the hospital stay.
- 6. Total Days were calculated as the Discharge Date minus the Admission Date. If the dates are the same, then Total Days are equal to one.

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³ For plans with a deductible that applies to both in- and out-of-network services, this deductible is used in the calculations.

- 7. The MCBS Utilization Days were defined as the covered days (1-90) during a benefit period and any MCBS lifetime reserve days used during that stay.
- 8. Medicare Covered Days were calculated as Utilization Days minus the Lifetime Reserve Days.
- 9. Additional Days were calculated as Total Days minus the Utilization Days.
- 10. If Utilization Days were greater than zero, then the stay was considered Medicare covered.
- 11. If Additional Days were equal to zero, then the entire stay was considered Medicare covered.
- 12. Lifetime reserve days were considered Medicare covered under OM, but were priced as Additional Days or Non-Covered Days under MA.
- 13. Plan Maximum Additional Days were covered by the plan (but not by Medicare) and designated as unlimited days or as a specified number of days.
- 14. If Utilization Days are equal to zero, then the entire stay was considered non-covered and the non-covered cost was equal to the Total cost.
- 15. Non-Covered Days are equal to Additional Days minus the Plan Maximum Additional Days.

The MA-PD or MA calculation of the OOPC estimate for the Inpatient Hospital Service Category benefits is defined according to the following algorithms:

- 1. If the Maximum Enrollee OOPC amount was designated for a period other than a per-stay cost, then it was converted to an annual cost.
 - If the Plan Benefit Package (PBP) periodicity is the benefit period, then it was assumed that the 90-day period is quarterly and it was multiplied by four.
- 2. If the Maximum Enrollee OOPC amount was based on a per-stay cost, then the annual out-of-pocket expenses were equal to the Maximum Enrollee OOPC multiplied by the Number of Stays (i.e., events).
- 3. For Medicare covered stays, the cost shares were calculated in the following manner:
 - The Co-pay per Stay amount was added to the total of the Co-pay per Day multiplied by the Number of Medicare covered Days; and/or
 - The Coinsurance Percent per Stay was multiplied by the Total Amount, and added to the total of the Coinsurance Percent per Day multiplied by the Amount per Day (equal to the Total Amount divided by the Total Number of Days), and then multiplied by the Number of Medicare Covered Days.
- 4. For Additional Days, the cost shares were calculated in the following manner:
 - The Number of Additional Days was multiplied by the Additional Days Co-pay per Day; and/or
 - The Number of Additional Days was multiplied by the Additional Days Coinsurance Percent per Day, which was then multiplied by the Amount per Day for Additional Days (the number of days must be less than or equal to the Number of Plan Maximum Additional Days).
 - The Co-pay per Day for Additional Days was multiplied by the Number of Additional Days; and/or
 - The Coinsurance Percent per Additional Days was multiplied by the Amount per Day and then multiplied by the Number of Additional Days.
- 5. For Non-Covered Stays, if the benefit is not Mandatory, the total cost was calculated in the following manner:
 - The Number of Excess Non-Covered Days was multiplied by the Amount per Day.

- 6. For Non-Covered Stays, if the benefit is Mandatory, the cost shares were calculated in the following manner:
 - The Co-pay per Stay, plus the Co-pay per Day was multiplied by the Number of Days; and/or
 - The Coinsurance Percent per Stay was multiplied by the Total Amount and added to the total of the Coinsurance Percent per Day multiplied by the Amount per Day and then multiplied by the Number of Days.
- 7. Out-of-pocket expenses are equal to the Total Non-Covered Costs (including deductible) plus the minimum of either:
 - The Total Cost calculated using the Per Stay Amount plus the Per Day Amount; or
 - The Maximum Enrollee OOPC.

Prescription Drugs

The calculation of OOPC estimate for the Part D outpatient drug category is based on the following assumptions and procedures. Appendix B provides a detailed listing of the key parameters used in the calculations for MA-PD and PDP drug plans.

- 1. Each event in the 2008 and 2009 MCBS PME (i.e., Drug) file is considered one drug prescription. MCBS drug prescriptions are adjusted using OACT-provided survey underreporting of drug prescription counts to estimate total drug usage in 2013.⁴
- 2. Map the name of each drug linked to appropriate National Drug Codes (NDCs). To associate the MCBS drugs to NDCs, a master list of drug names and their NDC(s) is first created using two commercial sources of data--First DataBank (FDB) and Medispan. Then, each MCBS prescription drug name is mapped to one or more NDCs via this master list. For MCBS drug prescription records that can be linked to Prescription Drug Event (PDE) data, the NDC found on the PDE record is used. Drugs are identified on Part D sponsor formularies using nomenclature and unique identifiers known as RxNorm concept unique identifier codes or RXCUIs. Each RXCUI on the formulary reference file (FRF) that is used to build plan formularies is associated with a related NDC. MCBS drugs are mapped to these RXCUIs using an NDC-RXCUI crosswalk.
- 3. Drugs that could not be mapped to an NDC (and thus to an RXCUI code) were considered over-the-counter, non-prescription drugs and their costs were not included in OOPCs.
- 4. An average price for each RXCUI is calculated using the 2011 PDE claims data which contains information on every prescription submitted for payment under the Part D program. The average price is calculated as the total gross expenditure (drug cost + dispensing fee + taxes + vaccination) divided by the number of PDE events, or prescriptions for that drug. Once the MCBS prescription record has been linked to a drug name, RXCUI, and average price, it is mapped to each plan's formulary and benefit package to obtain the drug cost sharing information. In instances where a drug event has been mapped into multiple RXCUIs and therefore is possibly covered on more than one tier, the RXCUI associated

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⁴ The prescription utilization adjustment for 2008 and 2009 MCBS data includes an initial underreporting adjustment and subsequent adjustments for increased usage up to the estimate year of 2013. The 2008-2013 utilization adjustment is: 1.12; the 2009-2013 utilization adjustment is 1.11.

with the lowest cost tier is assigned to the event for that plan. If the RXCUI that represents an MCBS drug is not on a plan's formulary, this drug is assumed to be noncovered and the full cost, as reflected by the average price, is added to a plan's OOPC value. Generic substitution is assumed such that when a generic version of a brand drug exists and is covered on the plan's formulary, the generic version is the one included in the calculations provided it is lower cost-sharing. However, therapeutic substitution (e.g. drugs in the same therapeutic class) is not assumed. In addition, Food and Drug Administration (FDA) drug approval information was utilized to determine the applicable non-applicable status of MCBS drugs for purposes of coverage gap cost-sharing estimates. This data creation process results in a file that includes the total cost of the drug for each MCBS beneficiary and prescription as well as the each plan's associated cost sharing structure for that drug. Using each plan's drug coverage status of the MCBS drugs and PBP-based cost sharing information (deductible, initial coverage limit, co-copayments and/or coinsurance, gap coverage, etc), the beneficiary's out-of-pocket costs are calculated. The calculations are done according to the type of Part D plan (Defined Standard, Basic Alternative, Actuarially Equivalent, or Enhanced Alternative) and the associated cost share structure. The calculations are based upon the assumption that each prescription is for a one-month (30-day) supply of drugs (rather than the 90- or other-day) from an In-Network Pharmacy. In the event that both a preferred and non-preferred pharmacy exist, the calculations are based on the preferred pharmacy cost-sharing.

- 5. The OOPC calculations follow as closely as possible those used by the Medicare Drug Plan Finder in terms of sorting the drugs and assigning cost sharing at the various thresholds (deductible, ICL, catastrophic). That is, the prescriptions are reviewed sequentially, with each plan's cost sharing structure used through each phase (e.g., pre-ICL, gap, and post-ICL). The copayments are used directly in calculations of costs; the coinsurance amounts are determined by multiplying the coinsurance percentage by the full cost of the drug from the PDE data. As noted earlier, throughout the processing, the lowest cost sharing available for a given MCBS drug is used. Additional plan features are also incorporated into the calculations, such as mandatory gap coverage (both the standard benefit for generic and brand drugs and the coverage gap discount program for applicable drugs) and additional gap coverage offered for full and/or partial tiers.
- 6. For MA plans that do not offer a Part D benefit (MA-Only plans), the calculation is identical to that provided for Original Medicare beneficiaries not participating in the Part D program. This calculation applies 2011 PDE average prices to MCBS prescription counts to calculate a total non-covered drug cost.
- The beneficiary level OOPC values are then aggregated to the health status level (across all beneficiaries in the data set) using the individual MCBS sample weights in order to yield nationally representative data. The annual costs are adjusted for enrollment to yield average monthly costs.

Dental

The calculation of the OOPC estimate for the Dental Service Category benefits was based on the following assumptions.

1. Each event in the MCBS Dental Utilization Events (DUE) file was considered to be one visit.

- 2. All DUEs in this file were considered to be non-Medicare covered.
- 3. Each DUE is mapped to a PBP dental benefit, and the appropriate benefit cost share is applied:
 - Exam = Oral Exam;
 - Filling = Restorative;
 - Extraction and Root Canal = Endodontics;
 - Crown, Bridge, Ortho, and Other = Prosthodontics;
 - Cleaning = Cleaning; and
 - X-rays = X-rays.
- 4. If the plan offers dental benefits as a Mandatory benefit, then the PBP co-pay and coinsurance cost-share amounts were applied to the appropriate utilization.
- 5. If the plan's dental benefit was an Optional benefit, or if the plan did not offer a dental benefit (i.e., it is missing in the PBP data), then the total charge is equal to the Total Expenditures.
- 6. Preventive Dental benefits include oral exams, cleanings, and X-rays.
- 7. Comprehensive Dental benefits include restorative, endodontics, and prosthodontics.
- 8. If an event includes more than one Dental service, then the cost per service equals the Total Amount, divided by the number of services.
- 9. If a plan does not cover a particular Dental service (e.g., cleaning), then the cost of that service equals the calculated cost per service.
- 10. If the plan has a Maximum Enrollee Cost amount for Preventive Dental services, then the beneficiary cost equals the minimum of the sum of the non-Medicare covered costs or the Maximum Enrollee Cost Amount.
- 11. If the plan has a separate Maximum Enrollee Cost amount for Medicare-covered dental services, then the beneficiary cost equals the minimum of the sum of the Medicare-covered dental costs or the Maximum Enrollee Cost Amount.
- 12. If there was no Maximum Enrollee Cost amount, then the beneficiary cost is equal to the sum of the Preventive and Comprehensive Dental costs.

Skilled Nursing Facility (SNF)

The calculation of the OOPC estimate for the SNF Service Category benefits was based on the following assumptions.

- 1. Each event in the MCBS Skilled Nursing Home Utilization file was considered one SNF stay.
- 2. MCBS events that have a source of "Survey only" were excluded from the analysis.
- 3. The MCBS Total Expenditures equal the total charge for the SNF stay.
- 4. Total Days were calculated as the Discharge Date minus the Admission Date. If the dates were the same, then Total Days equal one.
- 5. The MCBS Utilization Days were defined as covered days (1-100) during a benefit period.
- 6. Medicare covered Days were calculated as Utilization Days.
- 7. Additional Days were calculated as the Total Days minus the Utilization Days.
- 8. If Utilization Days were greater than zero, then the stay was considered Medicare covered.
- 9. If Additional Days were equal to zero, then the entire stay was considered Medicare covered.
- 10. Plan Maximum Additional Days are days that are covered by the Plan (but not by Medicare), and were designated by the plan as Unlimited Days or a plan specified number of days.

- 11. If Utilization Days equal zero, then the entire stay was considered non-covered and the non-covered cost equals the Total Cost.
- 12. Non-covered days equal Additional Days minus the number of Plan Maximum Additional Days.

The MA-PD or MA calculation of the OOPC estimate for the SNF Service Category benefits was defined according to the following algorithms:

- 1. If the Maximum Enrollee OOPC is not a per-stay cost, it was converted to an annual cost.
- 2. If the Maximum Enrollee OOPC is based on per stay, then the annual out-of-pocket expenses equal the Maximum Enrollee OOPC, multiplied by the Number of Stays.
- 3. For Medicare Covered Stays, if Utilization Days are greater than zero, then the cost shares were calculated in the following manner:
 - The Co-pay per Stay plus the Co-pay per Day was multiplied by the Number of Medicare covered Days; and/or
 - The Coinsurance Percent per Stay was multiplied by the Total Amount, and added to the total of the Coinsurance Percent per Day multiplied by the Amount per Day (equal to the Total Amount divided by the Total Number of Days), which was then multiplied by the Number of Medicare covered Days.
- 4. For Additional Days, the cost shares were calculated in the following manner:
 - The Number of Additional Days was multiplied by the Additional Days Co-pay per Day; and/or
 - The Number of Additional Days was multiplied by the Additional Days Coinsurance Percent per Day, and then multiplied by the Amount per Day.
- 5. For Additional Days, if Additional Days are less than or equal to the Number of Plan Maximum Additional Days, then the cost shares were calculated in the following manner:
 - The Co-pay per Day for Additional Days was multiplied by the Number of Additional Days; and/or
 - The Coinsurance Percent per Additional Day was multiplied by the Amount per Day, and then multiplied by the Number of Additional Days.
- 6. For Non-Covered Stays, if the benefit is not Additional or Mandatory, then the total cost was calculated in the following manner:
 - The Number of Excess Non-Covered Days was multiplied by the Amount per Day.
- 7. For Non-Covered Stays, if the benefit is Additional or Mandatory, then the cost shares were calculated in the following manner:
 - The Co-pay per Stay plus the Co-pay per Day was multiplied by the Number of Days; and/or
 - The Coinsurance Percent per Stay was multiplied by the Total Amount, and added to the total of the Coinsurance Percent per Day multiplied by the Amount per Day, and then multiplied by the Number of Days.
- 8. Out-of-Pocket expenses equal Total Non-Covered Costs (including deductible), plus the minimum of either:
 - The total cost calculated using the per stay amount plus the per day amount; or
 - The Maximum Enrollee OOPC.

4. Utilization-to-Benefits Linking Approach

The conceptual approach to linking MCBS/MPE data to the services/benefits in the PBP was based on the understanding that the majority of MA-PD or MA organizations cost their benefits and services based on the Type of Service and/or the Place of Service. For the purpose of estimating OOPCs, this has been referred to as a "Day-Door Theory." This theory assumes that all the benefits/services received by a beneficiary when he/she enters a "single door" (i.e., the facility or location where the services are provided) on a single day are bundled together for a single co-pay amount (e.g., an outpatient surgery that includes lab tests and X-rays would all be provided for a single co-pay amount).

The following steps represent the basic approach taken to link claims and/or line items in the DME, Outpatient, and Physician/Supplier file to PBP services/benefits. This approach does not apply to Dental or Prescription Drug event files where the linking was self-contained to specific procedures or records. In the case of the Dental event file, procedure-based dental events were linked to PBP services/benefits with little difficulty. Prescription Drugs were also independent of the line item-to-PBP linking approach; it was assumed that there is one record per drug event.

The approach for linking utilization-to-PBP services/benefits includes the following steps:

- 1. All of the utilization files (Outpatient, Physician/Supplier, Home Health, and DME) were subset to include only the records for the beneficiaries in the MPF cohort.
- 2. The claims in the Outpatient file were a subset based on the specifications provided below and assigned to each applicable PBP service/benefit.
 - All claims were assigned based on Bill Type code or Revenue Center code, depending upon prioritization (e.g., Bill Type code is equal to Ambulatory Surgical Center; Revenue Center code is equal to Emergency Room).
- 3. The line items in the DME file were subset based on the specifications provided below and assigned to each applicable PBP service/benefit.
 - All line items were assigned based on the BETOS code (e.g., BETOS code is equal to Hospital bed).
- 4. The line items in the Physician/Supplier file were subset based on the specifications provided below and assigned to each applicable PBP service/benefit.
 - All line items were assigned based on one or more BETOS codes, Physician Specialty Codes, Service Type, and/or Place of Service, depending upon prioritization (e.g., BETOS code is equal to Ambulance).
- 5. All other line items that occur on the same date were extracted.
- 6. The entire set of same day line items were reviewed to:
 - Identify and map line items to the specified Service Category (e.g., Ambulance);
 - Identify and map related line items that occurred on the same day and were bundled into the same service, but for which no separate MA-PD or MA cost will be calculated (e.g., Physician Specialty is equal to Ambulance Service Suppliers and BETOS code is equal to Local or Undefined Codes):
 - Identify and map line items to another PBP Service Category (e.g., all line items that fall within the admission and discharge dates for an Inpatient Hospital stay and where

PLACE OF SERVICE code is equal to Inpatient Hospital will be bundled into the PBP 1a - Inpatient Hospital Service Category); and

- Determine if any line items should be reclassified.
- 7. The mapping identification for each line item in the file was maintained.
- 8. The analysis by Service Category was repeated to map all possible line items. Line items were reclassified, as required.

4.1 PBP Service Categories to DME Line Item Mapping

The following PBP services/benefits were addressed as part of this analysis: Physician Specialist, Outpatient Labs, Outpatient X-Rays, Outpatient Hospital, Durable Medical Equipment (DME), Prosthetics/Orthotics, Medical/Surgical Supplies, Renal Disease, Part B Medicare-Covered Drugs, and Part B Chemotherapy Drugs. The mappings for these PBP services/benefits (the number in the parentheses identifies the PBP service category) to line items in the DME file are presented in this section.

Physician Specialist (7d)

All line items where the BETOS code is equal to "Specialist-Ophthalmology," "Minor Procedures-Musculoskeletal," "Minor Procedures-Other," "Office visit – established," "Office visits – new," or "Consultations" were mapped to the Physician Specialist (7d) service category.

Outpatient Labs (8al)

All line items where the BETOS code is equal to "Lab tests – other (non-Medicare fee schedule)" were mapped to the Outpatient Labs (8al) service category.

Outpatient X-Rays (8b3) [Selected Services]

All line items where the BETOS code is equal to "Standard imaging - chest" or "Standard imaging - musculoskeletal" were mapped to the Outpatient X-Ray (8b3) service category.

Outpatient Hospital (9a)

All line items where the BETOS code is equal to "Hospital visit – initial" or "Hospital visit – subsequent" were mapped to the Outpatient Hospital (9a) service category.

Durable Medical Equipment (DME) (11a)

All line items where the BETOS code is equal to "Hospital Beds," "Oxygen and Supplies," "Wheelchairs," "Other DME," or "Enteral and Parental" were mapped to the Durable Medical Equipment (DME) (11a) service category.

Prosthetics/Orthotics (11b)

All line items where the BETOS code is equal to "Orthotic Devices" were mapped to the Prosthetics, and Orthotics (11b) service category.

Medical/Surgical Supplies (11bs)

All line items where the BETOS code is equal to "Medical/surgical supplies," "Oncology-other," or "Lab tests – glucose" were mapped to the Medical/Surgical supplies (11bs) service category.

Renal Disease (12)

All line items where the BETOS code is equal to "Dialysis Services" were mapped to the Renal Disease (12) service category.

Part B Medicare-Covered Drugs (15m)

All line items where the BETOS code is equal to "Other Drugs" were mapped to the Part B Medicare-Covered Drugs (15m) service category. The cost share for Medicare-covered Part B non-chemotherapy drugs was used.

Part B Chemotherapy Drugs (15c)

All line items where the BETOS code is equal to "Chemotherapy Drugs" were mapped to the Drugs (15c) service category. The cost share for Medicare-covered Chemotherapy drugs was used.

Any other line items, where the BETOS code is equal to Local Codes, Undefined Codes, and/or Other non-Medicare fee schedule are not included in the calculations.

4.2 PBP Service Categories to Outpatient Claim Mapping

The following PBP services/benefits were addressed as part of this analysis: Primary Care Physician (PCP), Renal Disease, Ambulatory Surgical Center (ASC), Emergency Care, Ambulance, Outpatient Hospital, Urgently Needed Care, Mental Health, Physical Therapy/Speech, Occupational Therapy (OT), Immunizations, Cardiac Rehabilitation, Therapeutic Radiation, Physician Specialist, Diagnostic Radiological Services, Diagnostic Tests/Procedures, Outpatient Labs, Hearing Exams, Pulmonary Rehabilitation, Diabetes Education, Medical/Surgical Supplies, Mammography Screening, and Pap Smears/Pelvic Exams. The mapping of claims in the Outpatient file to the PBP service/benefit categories is done according to a particular order of priority. The presentation of the categories below follows that order of priority.

Primary Care Physician (PCP) (7a)

All claims where the BILL TYPE code is equal to "Clinic-Rural" were mapped to the Primary Care Physician (PCP) (7a) service category.

Renal Disease (12)

All claims where the BILL TYPE code is equal to "Clinic ESRD-Hospital Based" were mapped to the Renal Disease (12) service category.

Ambulatory Surgical Center (ASC) (9b)

All claims where the BILL TYPE code is equal to "Special Facility Hospital Outpatient (ASC)" or "Critical Access Hospital" were mapped to the Ambulatory Surgical Center (ASC) (9b) service category.

Emergency Care (4a)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Emergency Room" were mapped to the Emergency Care (4a) service category.

Ambulance (10a)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Ambulance" were mapped to the Ambulance (10a) service category.

Renal Disease (12)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Lab-Non-Routine Dialysis" or "Hemodialysis" were mapped to the Renal Disease (12) service category.

Mammography Screening

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Other Imaging Services-Screening Mammography" were classified as the Mammography Screening service. The first occurrence is assumed to \$0 dollar Medicare-covered preventive service and subsequent occurrences are mapped to Diagnostic Radiological services.

Outpatient Hospital (9a)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Operating Room Services – General Classification," "Operating Room

Services – Minor Surgery," or "Operating Room Services – Other Operating Room Services" were mapped to the Outpatient Hospital (9a) service category.

Urgently Needed Care (4b)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Clinic-Urgent Care Clinic" were mapped to the Urgently Needed Care (4b) service category.

Pap Smears/Pelvic Exams

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Other Diagnostic Services-Pap Smear" were classified as the Pap Smears/Pelvic Exams service. The first occurrence is assumed to \$0 dollar Medicare-covered preventive service and subsequent occurrences are mapped to Diagnostic Radiological services.

Mental Health (7e)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Clinic-Psychiatric," "Medical Social Services," "Psychiatric/Psychological Treatments," or "Psychiatric/Psychological Services" were mapped to the Mental Health (7e) service category.

Physical Therapy/Speech (7i)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Physical Therapy" or "Speech Language Pathology" were mapped to the Physical Therapy/Speech (7i) service category.

Occupational Therapy (OT) (7c)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Occupational Therapy" were mapped to the Occupational Therapy (7c) service category.

Immunizations - Flu Shot

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Preventative care services-Vaccine Administration," or "Drugs requiring specific identification-detailed coding" were classified as the Immunizations - Flu Shot service. These items are assumed to be for influenza vaccinations; however, there is no cost allowed for the influenza vaccine.

Cardiac Rehabilitation (3c)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Other Therapeutic Services-Cardiac Rehabilitation" were mapped to the Cardiac Rehab (3c) service category.

Therapeutic Radiation (8b2)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Radiology-Therapeutic" or "Nuclear Medicine-Therapeutic" were mapped to the Therapeutic Radiation (8b2) service category.

Physician Specialist (7d)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Oncology" were mapped to the Physician Specialist (7d) service category.

Diagnostic Radiological Services (8b1) [selected services]

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "CT scan," "MRT/MRI," "MRT," "MRT/MRA," "PET," or "Nuclear Medicine" were mapped to the Diagnostic Radiological Services (8b1) service category.

Ambulatory Surgical Center (ASC) (9b)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Ambulatory surgical care" were mapped to the Ambulatory Surgical Center (ASC) (9b) service category.

Outpatient Hospital (9a)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Gastro-Intestinal (GI) Services," "Cardiology—Cardiac Cath, Lab," or "Lithotripsy" were mapped to the Outpatient Hospital (9a) service category.

Diagnostic Tests/Procedures (8ad) [selected services]

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Cardiology" were mapped to the Clinical/Diagnostic Tests/Procedures (8ad) service category.

Diagnostic Radiological Services (8b1) [selected services]

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Radiology Diagnostic" or "Other Imaging Services" were mapped to the Diagnostic Radiological Services (8b1) service category.

Outpatient Labs (8al)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Laboratory" were mapped to the Outpatient Labs (8al) service category.

Diagnostic Tests/Procedures (8ad) [selected services]

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "EKG/ECG" or "EEG" were mapped to the Clinical/Diagnostic Tests/Procedures (8ad) service category.

Hearing Exams (18a)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Audiology" were mapped to the Hearing Exams (18a) service category.

Primary Care Physician (PCP) (7a)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Clinic," "Professional Fees," "Preventative Care Services—General," or "Treatment or Observation Room," or "Free-standing clinic" were mapped to the Primary Care Physician (PCP) (7a) service category.

Diagnostic Tests/Procedures (8ad) [selected services]

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Respiratory Services" were mapped to the Diagnostic Tests/Procedures (8ad) service category.

Therapeutic Radiation (8b2)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Other Therapeutic Services" were mapped to the Therapeutic Radiation (8b2) service category.

Pulmonary Rehab (3p)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Pulmonary function-general classification," or "Pulmonary function-other" were mapped to the Pulmonary Rehab (3p) service category.

Diabetes Education (14e)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Other Therapeutic Services-Education/Training" were mapped to the Diabetes Education (14e) service category.

Diagnostic Tests/Procedures (8ad) [selected services]

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Other Therapeutic Services – Education/Training" were mapped to the Diagnostic Tests/Procedures (8ad) service category.

Medical/Surgical Supplies (11bs)

All previously unmapped outpatient claims where at least one REVENUE CENTER code on the claim is equal to "Medical/surgical supplies" were mapped to the Medical/surgical supplies (11bs) service category.

4.3 PBP Service Categories to Physician/Supplier Line Item Mapping

The mapping of the Physician/Supplier to PBP services/benefits is addressed as part of this analysis. The methodology for linking Inpatient Hospital and SNF events to line items in the Physician/Supplier file is based on matching the line item last expense date with the Inpatient/SNF Admission and Discharge dates. These benefits/services were considered part of the Inpatient stay, and thus did not generate a separate cost.

The methodology for linking Outpatient services/benefits to line items in the Physician/Supplier file includes selecting all related line items for Outpatient claims mapped to each designated PBP category; that is, line items that occurred on the same day as the Outpatient bill and are related to the service/benefit. These line items were bundled under the designated Outpatient service/benefit.

For the remaining line items that do not link to Inpatient Hospital, SNF, or Outpatient claims, the mapping methodology for these PBP services/benefits to line items in the Physician Supplier file is implemented in a particular order of priority. This section summarizes the mapping by PBP category.

Inpatient Hospital - Acute (1a) and Inpatient Psychiatric Hospital (1b)

- 1. All line items where the Date of the Service is on or within the Inpatient event Admission and Discharge dates that match psychiatric records if provider is Psychiatric Hospital or the PLACE OF SERVICE code is equal to "Inpatient Psychiatric Facility" or "Inpatient Comprehensive Rehab Facility" were bundled under Inpatient Psychiatric Hospital.
- 2. All line items where the Date of the Service is on or within the Inpatient event Admission and Discharge dates that match inpatient records if provider is NOT Psychiatric Hospital or the PLACE OF SERVICE code is equal to "Inpatient Hospital" or "ER-Hospital" were bundled under Inpatient Hospital Acute.

SNF (2)

1. All line items where the Date of the Service is on or within the SNF event Admission and Discharge dates and the PLACE OF SERVICE code is equal to "Inpatient Hospital," "ER-hospital," "Nursing Facility" or "SNF," or the BETOS code is equal to "Nursing Home Visit" were bundled under the SNF category.

Emergency Care (4a)

1. All line items that occurred on the same day as an Outpatient ER visit, where the BETOS code is equal to "ER - visit," or the PLACE OF SERVICE is equal to "Inpatient Hospital," "Outpatient Hospital," or "ER," were bundled under Emergency Care.

Urgently Needed Care (4b)

1. All line items that occurred on the same day as an Outpatient Urgent Care visit were bundled under the Urgently Needed Care visit.

Primary Care Physician (PCP) (7a)

- 1. All line items that occurred on the same day as an Outpatient Clinic (independent or rural health) visit, excluding the "Billing Clinical Laboratory" were bundled under the PCP category.
- 2. All line items that occurred on the same day as an Outpatient Clinic (pediatric, treatment, preventative, or professional) visit, where the PLACE OF SERVICE is equal to "Inpatient Hospital," "Outpatient Hospital," "ER," "ASC," "Birthing Center," "Military Treatment Facility," "Nursing Facility," or "Other Unlisted Facility" and where the PHYSICIAN SPECIALTY code is NOT equal to the "Independent Billing Clinical Laboratory" were bundled under the Primary Care Physician (PCP) category.
- 3. a) All line items where the BETOS code is equal to "Office Visit" (e.g., new or established) or "Consultations," and where the PHYSICIAN SPECIALTY code is equal to "General Practice," "Family Practice," "Internal Medicine," or "Public Health or Welfare" were mapped as a PCP office visit.

- **b**) All other line items that occurred on the same day (i.e., related items) for a PCP were bundled under the PCP office visit.
- 4. **a)** All previously unmapped line items where the BETOS code is equal to "Hospital Visit," "Nursing Home or Home Visit," or "ER Visit," and where the PHYSICIAN SPECIALTY code is equal to "PCP" were mapped as PCP office visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) for a PCP office visit were bundled under the PCP visit.
- 5. **a)** All previously unmapped line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Ambulatory Procedures," "Eye Procedures," "Endoscopy," or "Specialist," and where the PHYSICIAN SPECIALTY code is equal to "PCP" were mapped as a PCP office visit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for a PCP were bundled under the PCP office visit.
- 6. All previously unmapped line items where the BETOS code is equal to "Other Medicare Fee Schedule," "Other Non-Medicare Fee Schedule," "Local Codes," or "Undefined Codes," and where the PHYSICIAN SPECIALTY code is equal to "PCP" (specified above) or "Public Health or Welfare Agencies" were mapped as a PCP office visit.
- 7. All line items where the BETOS code is equal to "Anesthesia," and the PHYSICIAN SPECIALTY code is equal to PCP (specified above), were bundled under the PCP office visit.
- 8. All previously unmapped line items where the BETOS code is equal to "Office Visit" or Consultations" and where the PHYSICIAN SPECIALTY code is equal to "Diag Lab (GPPP)" or "Diag X-ray" were mapped as a PCP office visit.
- 9. All line items where the PHYSICIAN SPEICALTY code is equal to "Nurse Practitioner" or "Internal Medicine" were mapped as a PCP office visit.

Chiropractic (7b)

- 1. All line items where the PHYSICIAN SPECIALTY code is equal to "Chiropractic" were mapped as a Chiropractic visit.
- 2. All other line items that occurred on the same day (i.e., related items) for Chiropractic were bundled under the Chiropractic visit.

Occupational Therapy (OT) (7c)

- 1. All line items where the PHYSICIAN SPECIALTY code is equal to "Occupational Therapist" or "Occupational Therapy (GPPP)" were mapped as an Occupational Therapy visit.
- 2. All other line items that occurred on the same day (i.e., related items) for an Occupational Therapist were bundled under Occupational Therapy.

Physician Specialist (7d)

1. All line items that occurred on the same day as an Outpatient Specialist visit, and the PLACE OF SERVICE is equal to "Inpatient Hospital," "Outpatient Hospital," "ER,"

- "ASC," "Birthing Center," "Military Treatment Facility," "Nursing Facility," or "Other Unlisted Facility," were bundled under the Physician Specialist visit.
- 2. **a)** All line items where the BETOS code is equal to "Office Visit" (e.g., new or established) or "Consultations," and where the PHYSICIAN SPECIALTY code is equal to "Specialist," "Critical Care (Intensivists)," "Addiction Medicine," or "Rheumatology," were mapped as a Physician Specialist office visit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for a Specialist were bundled under the Physician Specialist office visit.
- 3. **a)** All previously unmapped line items where the BETOS code is equal to "Hospital Visit," "Nursing Home or Home Visit," or "ER Visit," and where the PHYSICIAN SPECIALTY code is equal to "Specialist" (Rheumatology), were mapped as a Physician Specialist office visit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for a Specialist were bundled under the Physician Specialist office visit.
- 4. a) All previously unmapped line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Ambulatory Procedures," "Endoscopy," "Eye Procedures," or "Specialist," and where the PHYSICIAN SPECIALTY code is equal to "Specialist" ("Rheumatology," "Critical Care (intensive)," "Addiction Medicine," "Certified Registered Nurse Anesthetist (CRNA)"), were mapped as a Physician Specialist office visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) for a Specialist were bundled under the Physician Specialist office visit.
- 5. All previously unmapped line items where the BETOS code is equal to "Oncology Other" and PLACE is equal to "Office" and TYPE OF SERVICE is NOT equal to "Therapeutic Radiology" were mapped as a Physician Specialist office visit.
- 6. All previously unmapped line items where the BETOS code is equal to "Other Medicare Fee Schedule," "Other Non-Medicare Fee Schedule," "Local Codes," or "Undefined Codes," and where the PHYSICIAN SPECIALTY code is equal to "Specialist" ("Rheumatology," "Critical Care (intensivists)," "Certified Registered Nurse Anesthetist (CRNA)"), were mapped as a Physician Specialist office visit.
- 7. All line items where the BETOS code is equal to "Anesthesia" and the PHYSICIAN SPECIALTY code is equal to "Specialist" were bundled under Physician Specialist.
- 8. All previously unmapped line items where the BETOS code is equal to "Chiropractic" and where the PHYSICIAN SPECIALTY code is equal to "Specialist" were mapped as a Physician Specialist office visit.
- 9. All line items where the PHYSICIAN SPECIALTY code is equal to "Anesthesiology" or "Neuro-surgery" were mapped as a Physician Specialist office visit.
- 10. All line items where the PHYSICIAN SPECIALTY code is "Otolaryngology," "Cardiology," "Nuclear Medicine," "Nephrology," "Cardiac Surgery," "Hematology/Oncology," or "Medical Oncology" were mapped as a Physician Specialist office visit.

Mental Health (7e)

1. All line items that occurred on the same day as an Outpatient Mental Health visit, where the PHYSICIAN SPECIALTY code is equal to "Psychiatry," "Psychiatry Neurology,"

- "Psychologist," "Clinical Psychologist," "Psycho-Therapist," or "Licensed Clinical Social Worker" are bundled under the Outpatient Mental health visit.
- 2. All previously unmapped line items where the PHYSICIAN SPECIALTY code is equal to "Psychologist (billing independently)," "Clinical Psychologist," or "Licensed Clinical Social Worker" were mapped as a Mental Health visit.
- 3. All other line items that occurred on the same day (i.e., related items) for Psychologist were bundled under the Mental Health visit.

Podiatry (7f)

- 1. a) All line items where the BETOS code is equal to "Office Visit" (e.g., new or established), "Consultations," or "Nursing Home or Home Visit," and where the PHYSICIAN SPECIALTY code is equal to "Podiatry," were mapped as a Podiatry office visit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for Podiatry were bundled under the Podiatry office visit.
- 2. **a)** All previously unmapped line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Ambulatory Procedures," "Endoscopy," or "Specialist," and where the PHYSICIAN SPECIALTY code is equal to "Podiatry," were mapped as a Podiatry office visit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for Podiatry were bundled under the Podiatry office visit.
- 3. All previously unmapped line items where the BETOS code is equal to "Other Medicare Fee Schedule," "Other Non-Medicare Fee Schedule," "Local Codes," or "Undefined Codes," and where the PHYSICIAN SPECIALTY code is equal to "Podiatry," were mapped as a Podiatry office visit.
- 4. All previously unmapped line items where the BETOS code is equal to "Hospital Visitinitial," and where the PHYSICIAN SPECIALTY code is equal to "Podiatry," were mapped as a Podiatry office visit.

Other Healthcare Professionals (7g)

- 1. a) All line items where the BETOS code is equal to "Office Visit" (e.g., new or established) or "Consultations," and where the PHYSICIAN SPECIALTY code is equal to "Certified Nurse Midwife," "Certified Registered Nurse Anesthetist (CRNA), Anesthesia Assistant," "Nurse Practitioner," "Certified Clinical Nurse Specialist," "Preventive Medicine," or "Physician Assistant," were mapped as an Other Healthcare Professionals office visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) for these Physicians were bundled under the Other Healthcare Professionals office visit.
- 2. a) All previously unmapped line items where the BETOS code is equal to "Hospital Visit," "Nursing Home or Home Visit," or "ER Visit," and where the PHYSICIAN SPECIALTY code is equal to "Nurse Practitioner," "Critical Care (intensivist)," "Preventive Medicine," "Certified Clinical Nurse Specialist," "Physician Assistant" were mapped as an Other Healthcare Professionals office visit.

- **b**) All other line items that occurred on the same day (i.e., related items) for Other Healthcare Professionals were bundled under the Other Healthcare Professionals office visit.
- 3. a) All previously unmapped line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Ambulatory Procedures," "Endoscopy," "Eye Procedures," or "Specialist," and where the PHYSICIAN SPECIALTY code is equal to "Other Healthcare Professionals" (specified above), were mapped as an Other Healthcare Professionals office visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) for Other Healthcare Professionals were bundled under Other Healthcare Professionals office visit.
- 4. All previously unmapped line items where the BETOS code is equal to "Other Medicare Fee Schedule," "Other Non-Medicare Fee Schedule," "Local Codes," or "Undefined Codes," and where the PHYSICIAN SPECIALTY code is equal to "All Other, e.g. Drug and Department Stores," "Physician Assistant," or "Nurse Practitioner" were mapped as an Other Healthcare Professionals office visit.
- 5. All line items where the BETOS code is equal to "Anesthesia" and the PHYSICIAN SPECIALTY code is equal to "Certified Registered Nurse Anesthetist (CRNA)" were bundled under Other Healthcare Professionals office visit.
- 6. All line items where the BETOS code is equal to "Specialist" and the PHYSICIAN SPECIALTY is equal to "Certified Clinical Nurse Specialist" were mapped as the Other Healthcare Professionals.

Psychiatry (7h)

- 1. a) All line items where the BETOS code is equal to "Office Visit" (e.g., new or established) or "Consultations," and where the PHYSICIAN SPECIALTY code is equal to "Psychiatry," "Psychiatry, Neurology," or "Neuropsychiatry," were mapped as a Psychiatry office visit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for a Psychiatrist were bundled under the Psychiatry office visit.
- 2. **a)** All previously unmapped line items where the BETOS code is equal to "Hospital Visit," "Nursing Home or Home Visit," or "ER Visit," and where the PHYSICIAN SPECIALTY code is equal to "Psychiatry" or "Psychiatry, Neurology" were mapped as a Psychiatry office visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) for a Psychiatrist were bundled under the Psychiatry office visit.
- 3. a) All previously unmapped line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Ambulatory Procedures," or "Specialist" and where the PHYSICIAN SPECIALTY code is equal to "Psychiatry" (specified above), were mapped as a Psychiatry office visit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for a Psychiatrist were bundled under the Psychiatry office visit.
- 4. a) All previously unmapped line items where the BETOS code is equal to "Other Medicare Fee Schedule," "Other Non-Medicare Fee Schedule," "Local Codes," or "Undefined Codes," and where the PHYSICIAN SPECIALTY code is equal to

- "Psychiatry," "Psychiatry, Neurology," or "Neuro-psychiatry" were mapped as a Psychiatry office visit.
- **b**) All other line items that occurred on the same day (i.e., related items) for Psychiatry were bundled under the Psychiatry visit.
- 5. All line items where the BETOS code is equal to "Other Medicare fee schedule," "Other non-Medicare fee schedule," "Local Code," "Undefined Codes," and where the PHYSICIAN SPECIALTY code is equal to "Psychiatry," "Psychiatry, Neurology," "Neuro-psychiatry" were mapped as a Psychiatry visit.

Physical Therapy (PT)/Speech Therapy (7i)

- a) All line items where the PHYSICIAN SPECIALTY code is equal to "Practicing Physical Therapist" or "Physiotherapy, GPPP" were mapped as a Physical Therapy visit.
 b) All other line items that occurred on the same day (i.e., related items) for this Physical Therapy (PT) were bundled under the Physical Therapy visit.
- 2. **a)** All previously unmapped line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Ambulatory Procedures," "Endoscopy," "Eye Procedures," or "Specialist," and the PHYSICIAN SPECIALTY code is equal to "Independent Physiological Laboratory," were mapped as a Physical Therapy visit.
 - **b**) All other line items that occurred on the same day for this Physical Therapy were bundled under the Physical Therapy visit.
- 3. All previously unmapped line items where the BETOS code is equal to "Other Medicare Fee Schedule," "Other Non-Medicare Fee schedule," "Local codes," or "Undefined codes," and where the PHYSICIAN SPECIALTY code is equal to "Independent Physiological Laboratory," were mapped as a Physical Therapy visit.

Diagnostic Procedures/Tests (8ad)

- 1. All previously unmapped line items where the PHYSICIAN SPECIALTY code is equal to "Independent Diagnostic Testing Facility" and the BETOS code is equal to "Major Procedure-cardio," "Minor Procedure," "Ambulatory procedure," or "Local codes" were mapped as a Diagnostic Procedures/Tests.
- 2. All line items where the BETOS code is equal to "Specialist" and the SERVICE TYPE is equal to "Diagnostic Laboratory" were mapped as a Diagnostic Procedures/Tests.
- 3. All line items where the BETOS code is equal to "Minor Procedures" and the PLACE OF SERVICE is equal to "Office" and the PHYSICIAN SPECIALTY code is equal to "Diagnostic Laboratory, GPPP" and the SERVICE TYPE is equal to "Diagnostic Laboratory" were mapped as a Diagnostic Procedures/Tests.
- 4. All line items where the BETOS code is equal to "Initial Hospital Visit" were mapped as a Diagnostic Procedures/Tests.

Outpatient Labs (8al)

1. All line items that occurred on the same day as an Outpatient lab service, and the PLACE OF SERVICE is equal to "Inpatient Hospital," Outpatient Hospital," ER," "ASC,"

- "Birthing Center," "Military Treatment Facility," "Nursing Facility," or "Other Unlisted Facility" were bundled under the Outpatient lab service.
- 2. All previously unmapped line items where the PHYSICIAN SPECIALTY code is equal to "Clinical Lab (Billing Independently)" were mapped as a Lab service.
- 3. All previously unmapped line items where the BETOS code is equal to "Lab Tests" or "Other Tests" were mapped as an Outpatient lab service.
- 4. All previously unmapped line items where the BETOS code is equal to "Local codes" or "Specialist," and the SERVICE TYPE is equal to "Diagnostic Laboratory," were mapped as a Lab service.
- 5. All line items where the SERVICE TYPE is equal to "Diagnostic Laboratory" were mapped as an Outpatient Labs service.

Diagnostic Radiological Services (8b1) [selected services]

- 1. All line items that occurred on the same day as an Outpatient complicated X-ray visit, where the BETOS code is equal to "Standard Imaging," "Advanced Imaging," "Echography," or "Imaging/Procedure," and the PLACE OF SERVICE is equal to "Inpatient Hospital," Outpatient Hospital," ER," "ASC," "Birthing Center," "Military Treatment Facility," "Nursing Facility," or "Other Unlisted Facility," were bundled under the Diagnostic Radiological Services visit.
- 2. All previously unmapped line items where the BETOS code is equal to "Advanced Imaging" and where the PHYSICIAN SPECIALTY code is equal to "Diagnostic Radiology" and where the SERVICE TYPE is "Diagnostic Radiology" were mapped as a Diagnostic Radiological Services visit. The maximum cost share will be applied to these services.
- 3. All line items where the BETOS code is equal to "Ambulatory Procedures" or "Minor Procedures" and where the PLACE of SERVICE is "Office," the "PHYSICIAN SPECILTY code is equal to "Diagnostic X-ray, GPPP," and the "SERVICE TYPE is "X-ray" were mapped as Diagnostic Radiological Services.
- **4.** All line items where the SERVICE TYPE is equal to "Diagnostic radiology" were mapped as Diagnostic Radiological Services.

Therapeutic Radiological Services (8b2)

- 1. All line items that occurred on the same day as an Outpatient Radiation Therapy visit, where the BETOS code is equal to "Oncology," were bundled under the Outpatient Therapeutic Radiation visit.
- 2. All previously unmapped line items where the BETOS code is equal to "Oncology" were mapped as a Therapeutic Radiation visit.
- 3. All line items where the BETOS code is equal to "Oncology Radiation Therapy" were mapped as a Therapeutic Radiation visit.

Outpatient X-rays (8b3) [selected services]

1. All line items that occurred on the same day as an Outpatient X-ray visit, where the BETOS code is equal to "Imaging," and the PLACE OF SERVICE is equal to "Inpatient

- Hospital," Outpatient Hospital," ER," "ASC," "Birthing Center," "Military Treatment Facility," "Nursing Facility," or "Other Unlisted Facility" were bundled under the Outpatient X-ray visit.
- 2. All previously unmapped line items where the PHYSICIAN SPECIALTY code is equal to "Portable X-ray Supplier" were mapped as an Outpatient X-ray visit.
- 3. All previously unmapped line items where the BETOS code is equal to "Standard imaging," "Echography," "Advanced Imaging," or "Imaging/Procedure" were mapped as an Outpatient X-ray visit.
- 4. All previously unmapped line items where the BETOS code is equal to "Standard imaging," "Echography," "Advanced Imaging," or "Imaging/Procedure" and PLACE OF SERVICE is equal to "inpatient Hospital," "Out-patient Hospital," "ER," "ASC," "Birthing Center," "Military Treat," "Nursing Facility," "Other Unlisted Facility" were mapped as an Outpatient X-ray visit.
- 5. All previously unmapped line items where the PHYSICIAN SPECIALTY code is equal to "Diagnostic X-ray" were mapped as an Outpatient X-ray visit.

Outpatient Hospital (9a)

- 1. All line items that occurred on the same day as an Outpatient Hospital visit, and where the PLACE OF SERVICE is equal to "Inpatient Hospital," "Outpatient Hospital," "ER," "ASC," "Birthing Center," "Military Treatment Facility," "Nursing Facility," or "Other Unlisted Facility," were bundled under the Outpatient Hospital visit.
- 2. All previously unmapped line items where the BETOS code is equal to "Oncology-Other" and PLACE OF SERVICE is equal to "Outpatient Hospital" and TYPE OF SERVICE is equal to "Surgery" were mapped as an Outpatient Hospital service.
- 3. All previously unmapped line items where the BETOS code is equal to "Anesthesia" and the PLACE OF SERVICE is equal to "Outpatient Hospital" were bundled under Outpatient Hospital service.

Ambulatory Surgical Center (ASC) (9b)

- 1. All line items that occurred on the same day as an Outpatient ASC visit, excluding those where the BETOS code is equal to "Office Visit" or "Consultation" with PLACE OF SERVICE equal to "Office," were bundled under the ASC visit.
 - **a)** All line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Ambulatory Procedures," "Endoscopy," "Eye Procedure," or "Specialist," and where the PHYSICIAN SPECIALTY code is equal to "Ambulatory Surgical Center," were mapped as an Ambulatory Surgical Center (ASC) visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) as the ASC visit were bundled under the ASC visit.
- 2. All line items where the BETOS code is equal to "Anesthesia" were mapped as an Ambulatory Surgical Center (ASC) visit.

Ambulance (10a)

- 1. All line items that occurred on the same day as an Outpatient ambulance service, where the PHYSICIAN SPECIALTY code is equal to "Ambulance Server Supplier," or the PLACE OF SERVICE code is equal to "Ambulance-Land" or "Ambulance-Air or Water," or the SERVICE TYPE code is equal to "Ambulance," were bundled under the Outpatient Ambulance service.
- 2. All previously unmapped line items where the PHYSICIAN SPECIALTY code is equal to "Ambulance Server Supplier," or the PLACE OF SERVICE code is equal to "Ambulance-Land" or "Ambulance-Air or Water," or the SERVICE TYPE code is equal to "Ambulance," were mapped as an Ambulance service.

Durable Medical Equipment (DME) (11a)

1. All line items where the BETOS code is equal to "Medical/Surgical Supplies," "Hospital Beds," "Oxygen and Supplies." "Wheelchairs," "Other DME," or "Orthotic Devices" were mapped as a Durable Medical Equipment (DME) benefit.

Medical/Surgical Supplies (11bs)

1. All line items where the BETOS code is equal to "Medical/Surgical Supplies" were mapped as a Medical Supplies benefit.

Renal Disease (12)

- 1. All line items that occurred on the same day as an Outpatient Dialysis visit, where the BETOS code is equal to "Dialysis services," were bundled under Renal Disease service.
- 2. All previously unmapped line items where the BETOS code is equal to "Dialysis Services" were mapped as a Renal Disease service.

Immunizations (14a)

Influenza

- 1. Medicare policy is that the co-pay for influenza immunizations is equal to \$0.
- 2. All line items where the BETOS code is equal to "Immunizations/Vaccinations" were mapped to the Immunizations (14a) service category.

Pneumococcal

- 1. Medicare Policy is that the co-pay for pneumococcal immunizations is equal to \$0.
- 2. All line items where the SERVICE TYPE code is equal to "Vaccine" were mapped to the Immunizations (14a) service category.

Chemotherapy (15c)

- 1. **a)** All line items where the BETOS code is equal to "Chemotherapy" were mapped as Chemotherapy.
 - **b)** All other line items that occurred on the same day (i.e., related items) for Chemotherapy were bundled under Chemotherapy.

Part B Medicare-Covered Drugs (15m)

- 1. **a)** All previously unmapped line items where the BETOS code is equal to "Other drugs," were mapped as a Part B Medicare-covered Drugs benefit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for "Other drugs" were bundled under the Part B Medicare-Covered Drugs category.

Comprehensive Dental (16b)

- 1. a) All line items where the BETOS code is equal to "Office Visit" (e.g., new or established) or "Consultations," and where the PHYSICIAN SPECIALTY code is equal to "Oral Surgery (Dentists Only)," were mapped as a Dental office visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) for Oral Surgery (Dentists Only) were bundled under the Dental office visit.
- 2. a) All previously unmapped line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Ambulatory Procedures," "Endoscopy," or "Specialist" and where the PHYSICIAN SPECIALTY code is equal to "Oral Surgery (Dentist only)" were mapped as a Dental office visit.
 - **b)** All other line items that occurred on the same day (i.e., related items) for Oral Surgery (Dentists Only) were bundled under the Dental office visit.
- 3. All previously unmapped line items where the BETOS code is equal to "Other Medicare Fee Schedule," "Other Non-Medicare Fee Schedule," "Local Codes," or "Undefined Codes," and where the PHYSICIAN SPECIALTY code is equal to "Oral Surgery (Dentists Only)," were mapped as a Dental office visit.

Eye Exams (17a)

- 1. a) All line items where the BETOS code is equal to "Office Visit" (e.g., new or established) or "Consultations," and where the PHYSICIAN SPECIALTY code is equal to "Optometry," were mapped as an Eye Exams visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) for Optometry were bundled under the Eye Exams visit.
- 2. a) All previously unmapped line items where the BETOS code is equal to "Hospital Visit," "Nursing Home or Home Visit," or "ER Visit," and where the PHYSICIAN SPECIALTY code is equal to "Optometry" were mapped as an Eye Exam visit.
 - **b**) All other line items that occurred on the same day (i.e., related items) for Optometry were bundled under the Eye Exams visit.
- 3. a) All previously unmapped line items where the BETOS code is equal to "Major Procedures," "Minor Procedures," "Endoscopy," "Eye

- Procedures," or "Specialist," and the PHYSICIAN SPECIALTY code is equal to "Optometry Independent Diagnostic Testing Facility" were mapped as an Eye Exams visit.
- **b**) All other line items that occurred on the same day (i.e., related items) for Optometry were bundled under the Eye Exam visit.
- 4. All previously unmapped line items where the BETOS code is equal to "Specialist," and the PHYSICIAN SPECIALTY code is equal to "Independent Diag Testing Facility," and SERVICE TYPE is equal to "Vision items/services" and PLACE is equal to "Office" were mapped as an Eye Exams visit.

Hearing Exams (18a)

- 1. a) All line items where the PHYSICIAN SPECIALTY code is equal to "Audiologist (billing independently)" were mapped as a Hearing Exams visit.
 - **b)** All line items that occurred on the same day as an Outpatient service for Hearing Exams is bundled under the Hearing Exams service.
- 2. All line items where the BETOS code is equal to "Lab Tests-Other (Medicare fee schedule)" and the SERVICE TYPE is equal to "Hearing" were mapped as the Hearing Exams visit.

Pap Smears/Pelvic Exams

- 1. Medicare policy is that the co-pay for preventive Pap Smears/Pelvic exams is \$0.
- 2. All line items that occurred on the same day as an Outpatient Pap Smear were bundled under Pap Smears/Pelvic Exams.
- 3. All line items where the BETOS code is equal to "Lab Tests Other" and the PLACE OF SERVICE is equal to "Inpatient Hospital," "Outpatient Hospital," "ER," "ASC," "or "Other Unlisted Facility" were mapped as a Pap Smears/Pelvic Exams.

Mammography Screening

- 1. Medicare policy is that the co-pay for preventive Mammography Screening exams is \$0.
- 2. All line items that occurred on the same day as an Outpatient Mammography Screening, where the BETOS code is equal to "Standard Imaging Breast," were bundled under Outpatient Mammography Screening.
- 3. All line items where the PHYSICIAN SPECIALTY code is equal to "Mammography Screening Center" were mapped as a Mammography Screening visit.
- 4. All other line items that occurred on the same day (i.e., related items) for "Mammography Screening Center" were bundled under the Mammography Screening.

5. Calculation of OM Out-of-Pocket Cost Estimates

The OOPCs for OM beneficiaries included in the cohort were calculated using the utilization reported in the MCBS 2008 and 2009 cost and use files. The calculations assume that beneficiaries have enrolled in Medicare Part B at age 65, and that beneficiaries enrolled in OM do not have any insurance other than Medicare. The calculations, described in detail in this section, produce OOPCs equal to the monthly Part B premiums, plus the sum of Inpatient Hospital, SNF, Outpatient, Physician/Supplier, and DME services. In addition, the OOPCs include estimates for important non-Medicare covered benefits like drugs and dental services.

Beginning with the 2013 MPF, OOPC calculations for the OM plan were done in parallel with MA plans. Previously the calculations for OM were done with a separate set of programs, using slightly different assumptions. The OM plan is set up using PBP variables and is processed through the same set of mapping procedures and cost-share programs as described in Section 4. This section lists the basic cost sharing information required to calculate the OM OOPC.

5.1 Medicare Covered Inpatient and SNF Services

The following information is necessary to calculate the Medicare Covered Inpatient and SNF OOPCs for individuals participating in CMS' original OM program.

Inpatient Hospital Care Coinsurance

Medicare can cover 90 days of medically necessary hospitalization for each benefit period and as many as 60 lifetime reserve days to a maximum of 150 days. The 60 reserve days can be used only once during the beneficiary's lifetime.⁵ Acute inpatient and psychiatric inpatient utilization are calculated the same way in the MPF. The beneficiary pays the Part A Inpatient Hospital coinsurance \$296 per day for days 61-90 and \$592 per day for days 91-150. Beneficiary pays 100% of the cost beyond day 150.

Medicare Part A Hospital Deductible

The beneficiary pays \$1,184 deductible per benefit period.

Summing Medicare Covered Inpatient Hospital Costs

The final OOPCs for the Medicare covered Inpatient Hospital events were generated by summing the cost of the Part A deductible, the total coinsurance costs for days 61-90, and the total coinsurance costs days 91-150 per benefit period.

⁵ A benefit period begins the day a beneficiary is admitted to a hospital or SNF. The benefit period ends when the beneficiary has not received hospital or skilled nursing care for 60 days in a row. If the beneficiary is admitted to the hospital after one benefit period has ended, a new benefit period begins. The beneficiary must pay the inpatient hospital deductible for each benefit period. There is no limit to the number of benefit periods for a beneficiary.

SNF Coinsurance

A Medicare beneficiary is eligible for 100 days of care in a SNF during each benefit period. The beneficiary does not pay SNF coinsurance for days 1-20. The beneficiary pays the Part A SNF coinsurance \$148.00 for days 21-100. The beneficiary pays 100% for all days over 100 in a SNF.

5.2 Non-Medicare Covered Inpatient and SNF Services

OOPCs for Non-Medicare covered Inpatient and SNF services are calculated identically to the calculations for the MA plans.

5.3 Medical Costs: Physician and Outpatient Services

The following information is necessary to calculate the OOPCs for individuals participating in CMS' OM program for Physician and Outpatient Services.

Medicare Part B Premium

It was assumed that all members of the out-of-pocket cohort participate in Medicare Part B and pay the monthly \$104.90 premium (\$1,258.80 annually) in 2013. This amount was applied to every Beneficiary.

Medicare Part B Deductible

It was assumed that every Beneficiary with a positive Part B covered Allowed Charge from the Physician/Supplier, DME, and Outpatient files pays a \$147.00 deductible (assuming they have medical or outpatient services of at least \$147.00).

Medical Costs

5.4 Non-Medicare Covered Outpatient Services

The following information is necessary to calculate the OOPCs for individuals participating in CMS' original OM program for Non-Medicare Covered Outpatient Services.

Prescription Drugs

Drug prescriptions are mapped by their MCBS drug name to RXCUI categories. An average drug price from the Prescription Drug Event (PDE) claims data file for 2011 is then selected from the list of RXCUIs associated with a drug name. These prices were applied to the number of prescriptions reported in the MCBS 2008 and 2009 data. Drugs that could not be mapped to an NDC proxy were considered over-the-counter, non-prescription drugs. Their costs were not

included in OOPCs. Each beneficiary's total out-of-pocket costs were calculated. The beneficiary pays for 100% of all non-covered prescription drugs under OM Medicare. Each event in the 2008 and 2009 MCBS Prescribed Medical Event (PME) (i.e. Drug) file is considered one drug prescription. As stated in Section 3, MCBS drug prescriptions are adjusted using OACT-provided survey underreporting of drug prescription counts to estimate total drug usage in 2013.

Beneficiary-level OOPC estimates for OM beneficiaries who choose to join a Medicare Prescription Drug Plan (PDP) can be obtained from the Medicare Plan Drug Finder website.

Dental

The beneficiary pays for 100% of all non-Medicare-covered comprehensive and preventative dental charges reported in the 2008 and 2009 MCBS data.

6. Calculation of Medigap Out-of-Pocket Cost Estimates

Beginning with the 2013 MPF, OOPC calculations for the Medigap plans were done in parallel with MA plans. Previously the calculations for Medigap were done with a separate set of programs, using slightly different assumptions. A Medigap plan is set up using PBP variables and is processed through the same set of mapping procedures and cost-share programs as described in Section 4. This section lists the basic cost sharing information required to calculate the Medigap OOPCs.

For all Medigap OOPC estimates, the full cost of prescription drugs and non-Medicare covered dental expenditures is assumed to be equal to the OOPCs calculated for OM beneficiaries. These calculations are described in Section 5. OOPC estimates for OM and Medigap beneficiaries who choose to join a Medicare Prescription Drug Plan (PDP) are also described in Section 5.

6.1 Medigap Plan Choices - Medigap Plans A Through N

The Medigap calculations for the OOPC estimates were defined based on "2012 Choosing a Medigap Policy: A Guide to Health Insurance for People with Medicare," which was produced by CMS. Specific updates to details for some Medigap plans are also obtained from CMS analysts.

Most Medigap policies are sold in ten standardized plans. Table 6.1 provides a description of most of the Medigap plans and their benefits. Alternative plans offered in Massachusetts, Minnesota, or Wisconsin are discussed in Section 6.2.

Table 6.1 Medigap Plans and Their Benefits

If an 'X' appears in a column, the Medigap policy covers 100% of the described benefit. If a row lists a percentage, the policy covers that percentage of the described benefit. If a row is blank, the policy doesn't cover that benefit. **Note:** The Medigap policy covers coinsurance only after the beneficiary has paid the deductable (unless the Medigap policy also covers the deductible).

| | | Medigap Plans | | | | | | | | |
|---|---|---------------|---|---|----|---|---------|---------|-----|------|
| Medigap Benefits | A | В | C | D | F* | G | K | L | M | N |
| Medicare Part A Coinsurance and Hospital costs up to an additional 365 days after Medicare benefits are used | X | X | X | X | X | X | X | X | X | X |
| Medicare Part B Coinsurance or Copayment | X | X | X | X | X | X | 50% | 75% | X | X*** |
| Blood (First 3 pints) | X | X | X | X | X | X | 50% | 75% | X | X |
| Part A Hospice Care Coinsurance or Copayment | X | X | X | X | X | X | 50% | 75% | X | X |
| SNF Coinsurance | | | X | X | X | X | 50% | 75% | X | X |
| Medicare Part A Deductible | | X | X | X | X | X | 50% | 75% | 50% | X |
| Medicare Part B Deductible | | | X | | X | | | | | |
| Medicare Part B Excess Charges | | | | | X | X | | | | |
| Foreign Travel Emergency (Up to Plan Limits) | | | X | X | X | X | | | X | X |
| Out-of-Pocket Limit ** | | | | | | | \$4,800 | \$2,400 | | |

^{*} Plan F also offers a high-deductible plan. Under this option, the beneficiary pays for Medicare-covered costs up to the deductible amount of \$2,110 in 2013 before the Medigap plan pays anything.

The subsequent sections describe the calculation of the out-of-pocket costs for individuals purchasing a Medigap policy.

6.1.1 Basic Benefits

Inpatient Hospital Care

This benefit covers the Part A coinsurance of \$296 per day for days 61-90 and \$592 per day for days 91 to 150. It also covers 100% of the cost for 365 extra days of hospital care during your lifetime, after Medicare coverage ends.

^{**} After the beneficiary meets the out-of-pocket yearly limit and the yearly Part B deductible (\$147 in 2013), the Medigap plan pays 100% of covered services for the rest of the calendar year.

^{***} Plan N pays 100% of the Part B coinsurance, except for a copayment of up to \$20.00 for some office visits and up to a \$50 copayment for emergency room visits that don't result in an inpatient admission.

Medical Costs

This benefit covers the Part B coinsurance (generally 20% of the Medicare-approved payment amount) or copayment amount, which may vary according to the service. The coverage follows payment of a \$147 deductible. For Plans K and L, the benefit pays 50% and 75%, respectively of the Medicare Part B coinsurance. As noted in the table, Plan N pays 100% of the Part B coinsurance except for a copayment for some office visits.

The benefits provided for Medical Costs under the basic Medigap plan provisions are equivalent to the OM coinsurance amounts for physician-supplier, DME, and outpatient claims. The calculations for these costs are summarized in the OM section above.

Blood

The blood benefit covers the first three pints of packed blood each calendar year. However, as with OM benefits, blood utilization data under Medicare is not readily available from the Cost and Use dataset. Therefore, this category was excluded from the Medigap OOPC calculations.

Hospice Care

Medicare hospice claims from the MCBS are not processed. Therefore, this benefit is assumed to pay 100 percent of the hospice out-of-pocket costs for Medicare Part A Medicare covered expenses and respite care.

6.1.2 "Extra" Benefits

Medicare Part A Hospital Deductible

This benefit covers \$1,184 per benefit period. This amount can change every year. For the K and M policies, the benefit covers 50% of the deductible. For the L policy, the benefit covers 75% of the deductible.

SNF Coinsurance

This benefit covers the Medicare-covered coinsurance amounts for each SNF event. For Plans K and L, the benefit covers 50% and 75%, respectively, of the coinsurance amounts.

Medicare Part B Deductible

This benefit covers up to \$147 per year. The benefit for Plans C and F is equal to the calculated Part B deductible.

Foreign Travel Emergency (Emergency Care Outside the United States)

This benefit for Plans C, D, F, G, M, and N generally covers 80% of the cost of emergency care during the first 60 days of each trip (after the \$250 deductible is paid) and a \$50,000 lifetime benefit limit. No data are available in the MCBS dataset to identify Foreign Travel costs to beneficiaries. Therefore, this category was excluded from the Medigap OOPC calculations.

Medicare Part B Excess Charge

This benefit for Plans F and G covers the difference between the physician's actual charge and Medicare's approved amount. Plan F pays all of the excess charges; plan G pays 80% of the excess charges. There is a general assumption that a high percentage of physicians accept Medicare assignment. As a result, there is no excess Part B charge in the MPF computations (OM or Medigap) to offset this coverage benefit. In addition, no data are available in the MCBS dataset to identify Medicare Part B excess charge costs to beneficiaries. Therefore, this category was excluded from the Medigap OOPC calculations.

6.1.3 High Deductible Option Plan F

Plan F has a \$2,110 deductible with a \$250 deductible on foreign travel before other policy benefits are paid.⁶ For Plan F, the beneficiary's OM OOPCs for Inpatient, SNF, and Physician/Outpatient services are summed first. The Medigap Plan F OOPCs from Inpatient, SNF, and Physician/Outpatient services, assuming no deductible, are also summed. If the OM OOPC sum exceeds \$2,110, then the OOPC for the High Deductible Plan F equals \$2,110 plus the calculated Plan F OOPC above \$2,110, plus the beneficiary's OM OOPCs for Drug and Dental charges. Otherwise, the OOPC for the High Deductible Plan F equals the sum of the OM OOPC plus the beneficiary's OOPCs for OM Drug and Dental charges.

6.2 Medigap Plan Choices - Medigap Exempted State Plans (MA, MN, or WI)

The following table provides a description of all of the Medigap exempted state plans and their benefits. The three exempted states have several benefits and options that are either too complicated for calculation or too difficult to quantify. The benefits for the six basic and extended policies are described in this section. Wisconsin offers additional Medigap Plans that are equivalent to the High F, K, and L plan provisions described in the previous section. Minnesota offers additional Medigap Plans that are equivalent to the High F, K, L, M and N plan provisions described in the previous section.

⁶ The high deductible amounts are adjusted according to inflation and provided by CMS. The High F Medigap premiums necessary for final OOPC calculation are only available for a limited number of states. See below for a description of the premiums used for these plans.

| Table 6.2 Medigap Exempted State Plans | | | | | |
|--|-----------------------|-------------------------------|--------------------|---------------------------------|--------------------|
| | | | ns and Benef | fits Provided | |
| | Massachusetts Core | Massachusetts Supplement 1 | Minnesota Basic | Minnesota Extended Basic* | Wisconsin Basic |
| Basic Benefit | X | X | X | X | X |
| Skilled Nursing Coinsurance | | X | X | X | X |
| Part A Deductible | | X | | X | |
| Part B Deductible | | X | | X | |
| Foreign Travel Emergency | | X | X | X | |
| Physical Therapy | | | X | X | |
| Home Health | | | | | X |
| Inpatient Days: Mental Hospitals | X | X | | | X |
| Outpatient Mental Health | | | X | X | |
| Usual and Customary Fees | | | | X | |
| State-Mandated Benefits | X | X | X | X | X |

^{*}The Minnesota Extended Basic Plan provides benefits according to a \$1,000 ceiling on covered OOPCs.

The following is the information necessary to calculate the out-of-pocket savings for individuals purchasing a Medigap policy for the three exempt states.

6.2.1 Basic Benefits

Inpatient Hospital Care Coinsurance (All Exempted State Plans)

This benefit covers the Part A coinsurance of \$296 per day for days 61-90 and \$592 per day for days 91-150. It also covers 100% of the cost for 365 extra days of hospital care during your lifetime after Medicare coverage ends.

Medical Costs (All Exempted State Plans)

This benefit covers the Part B coinsurance (generally 20% of the Medicare-approved payment amount) or copayment amount, which may vary according to the service. The coverage follows payment of the \$147 deductible, unless the deductible is covered.

The benefits provided for Medical Costs, under the basic benefit for these Medigap plan provisions, are equivalent to the OM coinsurance amounts for Physician/Supplier, DME, and Outpatient claims. The calculations for these costs are summarized in the OM section above.

Blood

This benefit covers the first three pints of packed blood each calendar year. Blood utilization data under Medicare is not readily available from the Cost and Use dataset. Therefore, this category was excluded from the Medigap OOPC calculations.

6.2.2 Extra Benefits

Medicare Part A Hospital Deductible

For the Massachusetts Supplemental 1 and Minnesota Extended Basic plans, this benefit covers \$1,184 per benefit period. This amount can change every year.

SNF Coinsurance

For the Massachusetts Supplemental 1 and the Wisconsin Basic plan, the benefit covers up to \$148.00 per day for covered days in a Skilled Nursing Facility (SNF). For the Minnesota Basic and the Minnesota Extended Basic plans, the benefit covers 100 days and 120 days, respectively of SNF Coinsurance, beyond the OM benefit.

Medicare Part B Deductible

For the Massachusetts Supplemental 1 and Minnesota Extended Basic plans, this benefit covers up to \$147 per year. The benefit under these Medigap plans is equal to the calculated Part B Deductible.

Foreign Travel Emergency (Emergency Care Outside the United States)

For the Massachusetts Supplemental 1, Minnesota Basic, and Minnesota Extended Basic plans, this benefit covers 80% of the cost of emergency care during the first 60 days of each trip (after the \$250 deductible is paid) and a \$50,000 lifetime benefit limit. No data are available in the MCBS dataset to identify Foreign Travel costs to beneficiaries; therefore, this category was excluded from the Medigap OOPC calculations.

Inpatient Psychiatric Care

For Massachusetts, the core plan covers 60 days per calendar year. The Supplement 1 plan covers 120 days per benefit year. For the Wisconsin Basic plan, the benefit is 175 days per lifetime inpatient psychiatric care.

Outpatient Mental Health

For the Minnesota Basic and Extended Basic plans, coverage is 50% of the OM approved coinsurance amount for most outpatient and psychiatric mental health services.

Physical Therapy

For the Minnesota Basic and Extended Basic plans, coverage is 20% of the OM approved coinsurance amount for physical therapy services.

Home Health

For the Wisconsin Basic plan, 40 visits in addition to those paid by Medicare are covered. For the OOPC estimates, all Home Health care is assumed to be covered.

Usual and Customary Fees

The Minnesota Extended Basic plan covers 80% of the Usual and Customary fees not paid by Medicare, including foreign travel. Specific Usual and Customary Fees utilization for non-Medicare covered services are not readily available from the Cost and Use dataset. Therefore, this category is excluded from the Medigap OOPC calculations.

State-Mandated Benefits

All of the above plans also offer state-mandated benefits. These include Annual pap tests, mammograms, diabetic equipment, cancer screening, immunizations, and reconstructive surgery. Because of the lack of detail data on how the benefits apply to MCBS claims data, the associated benefits and OOPCs are not calculated.

Minnesota Extended Basic Out-of-Pocket Limit

The Minnesota Extended Basic plan has a \$1,000 annual limit on OOPCs for covered medical expenses. Once a beneficiary has reached this limit, the policy will pay 100% of covered expenses.

- 1. The sum of the OOPCs for Inpatient, SNF, and Medical services charges determined above was calculated by Beneficiary for the Minnesota Extended Basic plan.
- 2. If the sum of these costs exceeded \$1,000, then OOPCs under the Minnesota Extended Basic plan equaled \$1,000 plus the Beneficiary's OOPCs for outpatient drug and dental charges.
- 3. If the sum of these costs did not exceed \$1,000, then OOPCs under the Minnesota Extended Basic plan equaled the above OOPC sum, plus the Beneficiary's OOPCs for non-Medicare covered dental and prescription drug charges.

6.3 Medigap Premiums

A Medigap premium is applied to the Medigap OOPC calculations for each state and type of Medigap plan.⁷ The most recently available industry representative premiums are generally used, as they become available. Many private insurers offer Medigap policies, but there is significant variation across plans in terms of premiums (e.g., underwriting, premium amounts, rating methods, etc.).

The following is the process used to incorporate the premium amount into the OOPCs for most Medigap plans, including the three exempt states:

- An Excel file of industry representative 2011 premiums was used to create a SAS file;
- Where states had regional or area-specific premiums, the average rate across regions for each state was calculated;
- Plan names were then re-coded to correspond to the plan types being displayed in the MPF; and
- Finally, each state's premiums were added to calculate the final Medigap plan OOPC estimates.

For the 2013 OOPC calculations, the premiums for some plans are not available from the same industry representative source used for other Medigap plans. For the states where these plans are being offered, state insurance websites are examined. For each state, the most recently available, minimum premium for each plan was selected. This premium was then added to the SAS file described above.

⁷ Currently, the single statewide Medigap premium is generally used. In situations where the premiums are age-specific, the Medigap premium for the 65-69 age group was applied to the MPF calculations. For all but a few states, this assumption does not make a difference because premiums do not vary by age. For the few other states, it is assumed that the 65-69 age premium is appropriate for most new Medicare beneficiaries using the MPF.

7. Calculation of High-Cost Out-of-Pocket Cost Estimates

The MPF OOPC calculation methodology also estimates OOPCs that may be imposed on Medicare beneficiaries by chronic or high-cost illnesses. It was determined that the Hierarchical Condition Category (HCC) model developed by CMS provided useful diagnostic definitions for several candidates' chronic or catastrophic categories. The HCC model was developed by CMS to establish a risk-adjusted methodology for reimbursing MA-PD or MA plans. Note that the 2008 HCC category version of the model was used to map diagnosis codes into categories.

The approach used to calculate OOPCs for beneficiaries with high-cost conditions is as follows:

- 1. Utilization data for the beneficiaries in the 2008 and 2009 MCBS cohorts were run through the 2008 version of the DCG/HCC model that includes 70 HCC categories. Beneficiaries having one or more HCCs in 2008 or 2009 were identified. These conditions are identified when a claim has a diagnosis in the Inpatient, Outpatient, or Physician Supplier claims-level files (from the MCBS Cost and Use File) that corresponds to an HCC category in the HCC model.
- 2. Based on these results, CMS selected the three high-cost health categories to be included in the first version of the MPF. The two selected chronic categories were Diabetes (HCCs 15-19) and Congestive Heart Failure CHF (HCC 80). The selected catastrophic category was Acute Heart Condition AHC (HCCs 81-82).
- 3. The OOPCs for OM, as well as each Managed Care and Medigap plan were calculated. This was done by applying the BASEIDs identified with each of the three categories to the OOPC cost algorithms described in Sections 4, 5, and 6 above. Cost estimates were then aggregated and averaged for all beneficiaries in each chronic/catastrophic category, regardless of health status.
- 4. The descriptions for the HCC codes included in each category are listed in Table 7.1

| Table 7.1 Hierar | Table 7.1 Hierarchical Condition Category Model | | | | |
|-----------------------------|---|---|--|--|--|
| HCC CATEGORY | HCC CODE | DESCRIPTION | | | |
| Diabetes | 15 | Diabetes with Renal or Peripheral Circulatory Manifestation | | | |
| | 16 | Diabetes with Neurological or Other Specified Manifestation | | | |
| | 17 | Diabetes with Acute Complications | | | |
| | 18 | Diabetes with Ophthalmologic or Unspecified Manifestation | | | |
| | 19 | Diabetes without Complication | | | |
| Congestive Heart Failure | 80 | Congestive Heart Failure | | | |
| Acute Heart | 81 | Acute Myocardial Infarction | | | |
| Condition | 82 | Unstable Angina or Other Acute Ischemic Heart Disease | | | |

8. Development of Display Values

In the MPF, a beneficiary enters their zip code and other information. For each beneficiary, the OOPCs were calculated based on the utilization and costs that would be incurred under each MA-PD or MA, Medigap, and/or Medicare OM plan. First, the mean monthly cost incurred for each plan and each health grouping is calculated. This cost is allocated across several major category areas (inpatient, dental, other utilization, Part B, Part C, Part D, and Medigap premiums). When displaying OOPC estimates for the high-cost conditions described above, these monthly costs are rounded. Also, an annualized total cost for each plan and health grouping is calculated for display. The OM and Medigap costs are treated as other "plans." Finally, for each plan, the mean estimate OOPC for the three selected chronic health categories described above is calculated.

⁸ In the MPF, the cost for a typical MCBS beneficiary in "Good" health is reported as the default. The beneficiary can change this assumption, as desired, to "Poor" or "Excellent."

Appendix A: 2008 and 2009 MCBS Documentation

The MCBS is a continuous, multipurpose survey of a representative national sample of the Medicare population, conducted by the Office of Strategic Planning (OSP) of CMS through a contract with Westat. The central goals of the MCBS are to:

- determine expenditures and sources of payment for services used by Medicare beneficiaries, including co-payments, deductibles, and non-covered services;
- ascertain all types of health insurance coverage and relate coverage to sources of payment; and
- trace processes over time, such as changes in health status, spending down to Medicaid eligibility, and the impacts of program changes.

Between 10,000 and 11,000 beneficiaries are included in the survey every year. There are 21 survey files, identified by a RIC code. There are also seven claims files that are linked to the survey respondents by a unique identification number.

Of the 21 survey files, there are 12 files that contain information related to:

- the survey respondent and survey information
- health status and functioning
- health insurance
- household composition
- facility characteristics (if in a facility)
- interview information
- timeline of events; and
- survey weights.

Seven files contain "event-" level health care utilization information:

- Dental
- Facility
- Inpatient
- Institutional
- Medical Provider
- Outpatient Hospital; and
- Prescription Drug.

There are two utilization summary files: one at the service level (seven categories and home health and hospice) and one at the person level. The event file records are linked to a claim by a claim identification number when there is a claim-generated event or when a survey event can be linked to the claim.

Appendix B: 2013 Part D Benefit Assumptions – MA-PD & PDP Plans

| Appendix B Tab | Appendix B Table 1 | | | | | |
|---|---|--|--|---|--|--|
| 2013 Medicare Part D Cost Share and Cost Limit Parameters | Defined Standard | Actuarially Equivalent | Basic Alternative | Enhanced Alternative | | |
| Pre-ICL Cost Shares | 25% | 25% or Tiers | 25% or Tiers | 25% or Tiers or No Cost Sharing | | |
| Pre-Deductible (First Dollar Generic Coverage) | No Coverage | No Coverage | Yes, optional* *If Yes, cost shares specified for generic drugs only. | Yes, optional* *If Yes, cost shares specified for generic drugs only. | | |
| Deductible | \$325 | \$325 | \$325* or Plan- specified* or No Deductible *Applies to brand drugs only if first dollar coverage exists. | \$325* or Plan-specified* or No Deductible *Applies to brand drugs only if first dollar coverage exists. | | |
| ICL | \$2,970 | \$2,970 | \$2,970 | \$2,970 or Plan-specified or No ICL *Partial Gap Coverage if greater than \$2,970 **Full Gap Coverage | | |
| Gap Coverage | | | | 79% Generic Beneficiary Cost 47.5% Brand Beneficiary Cost | | |
| Additional Gap Coverage | | | | No Coverage Or ICL Adjustment (see above) Or Gap Tiers | | |
| Threshold (TROOP) | \$4,750 | \$4,750 | \$4,750 | \$4,750 | | |
| Threshold (Fixed Capitated Demos) | N/A | N/A | N/A | \$6,733.75 | | |
| Post-Threshold Cost Shares | Greater of \$2.65 or 5% for generics (including brands treated as generic, or Greater of \$6.60 or 5% for all other drugs | Greater of \$2.65 or 5% for generics (including brands treated as generic, or Greater of \$6.60 or 5% for all other drugs or Post-Threshold Tiers or No Cost Sharing | Greater of \$2.65 or 5% for generics (including brands treated as generic, or Greater of \$6.60 or 5% for all other drugs or Post-Threshold Tiers or No Cost Sharing | Greater of \$2.65 or 5% for generics (including brands treated as generic, or Greater of \$6.60 or 5% for all other drugs or Post-Threshold Tiers or No Cost Sharing | | |
| Excluded Drugs Maximum Benefit Coverage Limit | N/A | N/A | N/A | Yes, optional*. *Coverage limit applies to Excluded Drugs tier only. | | |
| Charge Lesser of Copayment or Cost of the Drug | N/A | Yes, optional*. | Yes, optional*. | Yes, optional*. | | |

Note: Preliminary.

Appendix C: Inflation Factors

To inflate the 2008/2009 costs on the MCBS event files and the Medicare claims to 2013 dollars, CMS provided the following inflation factors.

| Appendix C Table 1 | | | | | |
|--------------------|----------------------|--------|-----------------|--|--|
| Fiscal Year | RICIPE | RICIUE | RICDUE | | |
| | (Inpatient Hospital) | (SNF) | (Dental Prices) | | |
| 2009 | 3.6% | 3.4% | 3.0% | | |
| 2010 | 1.9% | -1.1% | 2.7% | | |
| 2011 | -0.4% | 1.7% | 2.3% | | |
| 2012 | 1.2% | -11.1% | 3.1% | | |
| 2013 | 2.8% | 1.8% | 3.6% | | |

| Appendix C Table 2 | | | | | | |
|--------------------|---------|------------------------------------|-------|--|--|--|
| Calendar Year | RICPME | | | | | |
| | (Drugs) | | | | | |
| | Price | Utilization & Intensity per Capita | Total | | | |
| 2009 | 3.4% | 0.9% | 4.3% | | | |
| 2010 | 4.3% | -3.3% | 0.9% | | | |
| 2011 | 1.3% | 0.7% | 2.0% | | | |
| 2012 | 0.7% | 0.8% | 1.5% | | | |
| 2013 | 0.2% | 1.8% | 2.0% | | | |

| Appendix C Table 3 | | | | |
|--------------------|-------|--|--|--|
| Fiscal Year | ННА | | | |
| • • • • • | | | | |
| 2009 | 2.9% | | | |
| 2010 | 1.8% | | | |
| 2011 | -5.1% | | | |
| 2012 | -2.4% | | | |
| 2013 | 0.0% | | | |

| Appendix C Table 4 | | | | |
|--------------------|------------|--|--|--|
| FISCAL YEAR | OUTPATIENT | | | |
| | | | | |
| 2009 | 3.0% | | | |
| 2010 | 1.9% | | | |
| 2011 | 2.4% | | | |
| 2012 | 1.9% | | | |
| 2013 | 2.1% | | | |

| Appendix C Table 5 | | | | |
|--|-----------------------|-----------------------|--|--|
| PHYSICIAN/SUPPLIER AND DME | 2008-2013 Increase | 2009-2013 Increase | | |
| BETOS Code | | | | |
| D1A:Medical/surgical supplies | 1.021034 | 1.021034 | | |
| D1B:Hospital beds | 1.021034 | 1.021034 | | |
| D1C:Oxygen and supplies | 1.021034 | 1.021034 | | |
| D1D: Wheelchairs | 1.021034 | 1.021034 | | |
| D1E:Other DME | 1.021034 | 1.021034 | | |
| D1F:Orthotic devices | 1.071065 | 1.021034 | | |
| I1A:Standard imaging – chest | 1.037496 | 1.026208 | | |
| I1B:Standard imaging - musculoskeletel | 1.037496 | 1.026208 | | |
| I1C:Standard imaging – breast | 1.037496 | 1.026208 | | |
| I1D:Standard imaging - contrast gastrointestinal | 1.037496 | 1.026208 | | |
| I1E:Standard imaging - nuclear medicine | 1.037496 | 1.026208 | | |
| I1F:Standard imaging – other | 1.037496 | 1.026208 | | |
| I2A:Advanced imaging - CAT: head | 1.037496 | 1.026208 | | |
| I2B:Advanced imaging - CAT: other | 1.037496 | 1.026208 | | |
| I2C:Advanced imaging - MRI: brain | 1.037496 | 1.026208 | | |
| I2D:Advanced imaging - MRI: other | 1.037496 | 1.026208 | | |
| I3A:Echography – eye | 1.037496 | 1.026208 | | |
| I3B:Echography - abdomen/pelvis | 1.037496 | 1.026208 | | |
| I3C:Echography – heart | 1.037496 | 1.026208 | | |
| I3D:Echography - carotid arteries | 1.037496 | 1.026208 | | |
| I3E:Echography - prostate, transrectal | 1.037496 | 1.026208 | | |
| I3F:Echography – other | 1.037496 | 1.026208 | | |
| I4A:Imaging/procedure – Heart | 1.037496 | 1.026208 | | |

| I4B:Imaging/procedure – other M1A:Office visits – new M1B:Office visits – established M2A:Hospital visit – initial M2B:Hospital visit – subsequent M2C:Hospital visit – critical care M3:Emergency room visit M4A:Home visit M4B:Nursing home visit M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – other | 1.037496 | |
|--|----------|----------|
| M1B:Office visits – established M2A:Hospital visit – initial M2B:Hospital visit – subsequent M2C:Hospital visit – critical care M3:Emergency room visit M4A:Home visit M4B:Nursing home visit M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – opthamology | | 1.026208 |
| M2A:Hospital visit – initial M2B:Hospital visit – subsequent M2C:Hospital visit - critical care M3:Emergency room visit M4A:Home visit M4B:Nursing home visit M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| M2B:Hospital visit – subsequent M2C:Hospital visit – critical care M3:Emergency room visit M4A:Home visit M4B:Nursing home visit M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| M2C:Hospital visit - critical care M3 :Emergency room visit M4A:Home visit M4B:Nursing home visit M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| M3 :Emergency room visit M4A:Home visit M4B:Nursing home visit M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| M4A:Home visit M4B:Nursing home visit M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| M4B:Nursing home visit M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| M5A:Specialist – pathology M5B:Specialist – psychiatry M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| M5B:Specialist – psychiatry M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| M5C:Specialist – opthamology | 1.037496 | 1.026208 |
| | 1.037496 | 1.026208 |
| M5D Specialist other | 1.037496 | 1.026208 |
| WisD.specialist - other | 1.037496 | 1.026208 |
| M6 :Consultations | 1.037496 | 1.026208 |
| O1A:Ambulance | 1.071065 | 1.021034 |
| O1B:Chiropractic | 1.037496 | 1.026208 |
| O1C: Enteral and Parental | 1.071065 | 1.021034 |
| O1D:Chemotherapy | 1.087155 | 1.087155 |
| O1E:Other drugs | 1.087155 | 1.087155 |
| O1F:Vision, hearing and speech services | 1.050000 | 1.000000 |
| O1G:Influenza immunization | 0.924819 | 1.069156 |
| P0 :Anesthesia | 1.037496 | 1.026208 |
| P1A:Major procedure – breast | 1.037496 | 1.026208 |
| P1B:Major procedure - colectomy | 1.037496 | 1.026208 |
| P1C:Major procedure - cholecystectomy | 1.037496 | 1.026208 |
| P1D:Major procedure – turp | 1.037496 | 1.026208 |
| P1E:Major procedure – hysterectomy | 1.037496 | 1.026208 |
| P1F:Major procedure - explor/decompr/excisdisc | 1.037496 | 1.026208 |
| P1G:Major procedure – Other | 1.037496 | 1.026208 |
| P2A:Major procedure, cardiovascular - cabg | 1.037496 | 1.026208 |
| P2B:Major procedure, cardiovascular - aneurysm repair | 1.037496 | 1.026208 |
| P2C:Major Procedure, cardiovascular - thromboendarterectomy | 1.037496 | 1.026208 |
| P2D:Major procedure, cardiovascular - coronary angioplasty (PTCA) | 1.037496 | 1.026208 |
| P2E:Major procedure, cardiovascular - pacemaker insertion | 1.037496 | 1.026208 |

| P2F:Major procedure, cardiovascular - other 1.037496 1.026208 P3A:Major procedure, orthopedic hip fracture repair 1.037496 1.026208 P3B:Major procedure, orthopedic hip replacement 1.037496 1.026208 P3C:Major procedure, orthopedic knee replacement 1.037496 1.026208 P3D:Major procedure, orthopedic - other 1.037496 1.026208 P4A:Eye procedure - corneal transplant 1.037496 1.026208 P4B:Eye procedure - corneal transplant 1.037496 1.026208 P4B:Eye procedure - cataract removal/lens insertion 1.037496 1.026208 P4D:Eye procedure - testament of retinal lesions 1.037496 1.026208 P4E:Eye procedure - other 1.037496 1.026208 P5A:Ambulatory procedures - skin 1.029260 1.029260 P5B:Ambulatory procedures - musculoskeletal 1.029260 1.029260 P5D:Ambulatory procedures - infuinial hernia repair 1.029260 1.029260 P5D:Ambulatory procedures - other 1.029260 1.029260 P5E:Ambulatory procedures - skin 1.037496 1.026208 P6B:Minor procedures - skin 1.037496 <t< th=""><th>Appendix C Table 5</th><th></th><th></th></t<> | Appendix C Table 5 | | |
|--|--|----------|----------|
| P3B:Major procedure, orthopedic hip replacement 1.037496 1.026208 P3C:Major procedure, orthopedic knee replacement 1.037496 1.026208 P3D:Major procedure, orthopedic - other 1.037496 1.026208 P4A:Eye procedure - corneal transplant 1.037496 1.026208 P4B:Eye procedure - corneal transplant 1.037496 1.026208 P4C:Eye procedure - retinal detachment 1.037496 1.026208 P4D:Eye procedure - other 1.037496 1.026208 P4E:Eye procedure - other 1.037496 1.026208 P5A:Ambulatory procedures - skin 1.029260 1.029260 P5B:Ambulatory procedures - musculoskeletal 1.029260 1.029260 P5C:Ambulatory procedures - lithotripsy 1.029260 1.029260 P5D:Ambulatory procedures - other 1.029260 1.029260 P5E:Ambulatory procedures - other 1.029260 1.029260 P5E:Ambulatory procedures - skin 1.037496 1.026208 P6B:Minor procedures - skin 1.037496 1.026208 P6C:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor | P2F:Major procedure, cardiovascular - other | 1.037496 | 1.026208 |
| P3C:Major procedure, orthopedic knee replacement 1.037496 1.026208 P3D:Major procedure, orthopedic - other 1.037496 1.026208 P4A:Eye procedure - corneal transplant 1.037496 1.026208 P4B:Eye procedure - cataract removal/lens insertion 1.037496 1.026208 P4C:Eye procedure - retinal detachment 1.037496 1.026208 P4D:Eye procedure - treatment of retinal lesions 1.037496 1.026208 P4E:Eye procedure - other 1.037496 1.026208 P5E:Ambulatory procedures - skin 1.029260 1.029260 P5E:Ambulatory procedures - musculoskeletal 1.029260 1.029260 P5C:Ambulatory procedures - lithotripsy 1.029260 1.029260 P5E:Ambulatory procedures - other 1.029260 1.029260 P5E:Ambulatory procedures - other 1.029260 1.029260 P5E:Ambulatory procedures - other 1.037496 1.026208 P6E:Minor procedures - skin 1.037496 1.026208 P6E:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6C:Minor procedures - other (mon-Medicare fee schedule) 1.037496 1.026208< | P3A:Major procedure, orthopedic hip fracture repair | 1.037496 | 1.026208 |
| P3D:Major procedure, orthopedic - other 1.037496 1.026208 P4A:Eye procedure - corneal transplant 1.037496 1.026208 P4B:Eye procedure - cataract removal/lens insertion 1.037496 1.026208 P4C:Eye procedure - retinal detachment 1.037496 1.026208 P4D:Eye procedure - other 1.037496 1.026208 P4E:Eye procedure - other 1.037496 1.026208 P5A:Ambulatory procedures - skin 1.029260 1.029260 P5E:Ambulatory procedures - musculoskeletal 1.029260 1.029260 P5C:Ambulatory procedures - lithotripsy 1.029260 1.029260 P5E:Ambulatory procedures - other 1.029260 1.029260 P5E:Ambulatory procedures - skin 1.037496 1.026208 P6E:Minor procedures - skin 1.037496 1.026208 P6E:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6C:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - ather (mon-Medicare fee schedule) 1.037496 1.026208 | P3B:Major procedure, orthopedic hip replacement | 1.037496 | 1.026208 |
| P4A:Eye procedure - corneal transplant 1.037496 1.026208 P4B:Eye procedure - cataract removal/lens insertion 1.037496 1.026208 P4C:Eye procedure - retinal detachment 1.037496 1.026208 P4D:Eye procedure - treatment of retinal lesions 1.037496 1.026208 P4E:Eye procedure - other 1.037496 1.026208 P5A:Ambulatory procedures - skin 1.029260 1.029260 P5B:Ambulatory procedures - inguinal hernia repair 1.029260 1.029260 P5D:Ambulatory procedures - lithotripsy 1.029260 1.029260 P5D:Ambulatory procedures - other 1.029260 1.029260 P5E:Ambulatory procedures - other 1.029260 1.029260 P6E:Minor procedures - skin 1.037496 1.026208 P6E:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6C:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - arthroscopy 1.037496 1.026208 P8B:Endoscopy - arthroscopy 1.037496 1.026208 | P3C:Major procedure, orthopedic knee replacement | 1.037496 | 1.026208 |
| P4B:Eye procedure - cataract removal/lens insertion 1.037496 1.026208 P4C:Eye procedure - retinal detachment 1.037496 1.026208 P4D:Eye procedure - treatment of retinal lesions 1.037496 1.026208 P4E:Eye procedure - other 1.037496 1.026208 P5A:Ambulatory procedures - skin 1.029260 1.029260 P5B:Ambulatory procedures - musculoskeletal 1.029260 1.029260 P5D:Ambulatory procedures - inguinal hernia repair 1.029260 1.029260 P5D:Ambulatory procedures - inguinal hernia repair 1.029260 1.029260 P5D:Ambulatory procedures - inguinal hernia repair 1.029260 1.029260 P5D:Ambulatory procedures - other 1.029260 1.029260 P6A:Minor procedures - other 1.037496 1.026208 P6B:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - adiation therapy 1.037496 1.026208 P8B:Endoscopy - athroscopy 1.037496 1.0 | P3D:Major procedure, orthopedic - other | 1.037496 | 1.026208 |
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| P4D:Eye procedure – treatment of retinal lesions 1.037496 1.026208 P4E:Eye procedure – other 1.037496 1.026208 P5A:Ambulatory procedures – skin 1.029260 1.029260 P5B:Ambulatory procedures – inguinal hernia repair 1.029260 1.029260 P5C:Ambulatory procedures – lithotripsy 1.029260 1.029260 P5D:Ambulatory procedures – other 1.029260 1.029260 P6A:Minor procedures – skin 1.037496 1.026208 P6B:Minor procedures – musculoskeletal 1.037496 1.026208 P6C:Minor procedures – other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures – other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology – radiation therapy 1.037496 1.026208 P7B:Oncology – adiation therapy 1.037496 1.026208 P8B:Endoscopy – arthroscopy 1.037496 1.026208 P8B:Endoscopy – sigmoidoscopy 1.037496 1.026208 P8C:Endoscopy – sigmoidoscopy 1.037496 1.026208 P8E:Endoscopy – colonoscopy 1.037496 1.026208 P8E:Endoscopy – laryngos | P4B:Eye procedure - cataract removal/lens insertion | 1.037496 | 1.026208 |
| P4E:Eye procedure – other 1.037496 1.026208 P5A:Ambulatory procedures – skin 1.029260 1.029260 P5B:Ambulatory procedures – musculoskeletal 1.029260 1.029260 P5C:Ambulatory procedures – inguinal hernia repair 1.029260 1.029260 P5D:Ambulatory procedures – lithotripsy 1.029260 1.029260 P5E:Ambulatory procedures – other 1.029260 1.029260 P6A:Minor procedures – skin 1.037496 1.026208 P6B:Minor procedures – other (Medicare fee schedule) 1.037496 1.026208 P6C:Minor procedures – other (non-Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures – other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology – radiation therapy 1.037496 1.026208 P7B:Oncology – ather 1.037496 1.026208 P8B:Endoscopy – athroscopy 1.037496 1.026208 P8C:Endoscopy – sigmoidoscopy 1.037496 1.026208 P8E:Endoscopy – colonoscopy 1.037496 1.026208 P8E:Endoscopy – colonoscopy 1.037496 1.026208 P8E:Endoscopy – laryngosc | P4C:Eye procedure - retinal detachment | 1.037496 | 1.026208 |
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| P5B:Ambulatory procedures - musculoskeletal 1.029260 1.029260 P5C:Ambulatory procedures - inguinal hernia repair 1.029260 1.029260 P5D:Ambulatory procedures - lithotripsy 1.029260 1.029260 P5E:Ambulatory procedures - other 1.029260 1.029260 P6A:Minor procedures - skin 1.037496 1.026208 P6B:Minor procedures - musculoskeletal 1.037496 1.026208 P6C:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures - other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - other 1.037496 1.026208 P8B:Endoscopy - arthroscopy 1.037496 1.026208 P8B:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8D:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8E:Endoscopy - cystoscopy 1.037496 1.026208 P8E:Endoscopy - bronchoscopy 1.037496 1.026208 P8F:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy - laparoscop | P4E:Eye procedure – other | 1.037496 | 1.026208 |
| P5C:Ambulatory procedures – inguinal hernia repair 1.029260 1.029260 P5D:Ambulatory procedures – lithotripsy 1.029260 1.029260 P5E:Ambulatory procedures – other 1.029260 1.029260 P6A:Minor procedures – skin 1.037496 1.026208 P6B:Minor procedures – other (Medicare fee schedule) 1.037496 1.026208 P6C:Minor procedures – other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures – other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology – radiation therapy 1.037496 1.026208 P7B:Oncology – other 1.037496 1.026208 P8B:Endoscopy – arthroscopy 1.037496 1.026208 P8B:Endoscopy – sigmoidoscopy 1.037496 1.026208 P8D:Endoscopy – sigmoidoscopy 1.037496 1.026208 P8E:Endoscopy – colonoscopy 1.037496 1.026208 P8E:Endoscopy – bronchoscopy 1.037496 1.026208 P8E:Endoscopy – laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy – laryngoscopy 1.037496 1.026208 P8E:Endoscopy – laparoscop | P5A:Ambulatory procedures – skin | 1.029260 | 1.029260 |
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| P5E:Ambulatory procedures - other 1.029260 1.029260 P6A:Minor procedures - skin 1.037496 1.026208 P6B:Minor procedures - musculoskeletal 1.037496 1.026208 P6C:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures - other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - other 1.037496 1.026208 P8A:Endoscopy - arthroscopy 1.037496 1.026208 P8E:Endoscopy - upper gastrointestinal 1.037496 1.026208 P8C:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8E:Endoscopy - colonoscopy 1.037496 1.026208 P8E:Endoscopy - cystoscopy 1.037496 1.026208 P8F:Endoscopy - bronchoscopy 1.037496 1.026208 P8H:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy - latyngoscopy 1.037496 1.026208 P9B: Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Medicare Fee Schedule) </td <td>P5C:Ambulatory procedures – inguinal hernia repair</td> <td>1.029260</td> <td>1.029260</td> | P5C:Ambulatory procedures – inguinal hernia repair | 1.029260 | 1.029260 |
| P6A:Minor procedures – skin 1.037496 1.026208 P6B:Minor procedures - musculoskeletal 1.037496 1.026208 P6C:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures - other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - other 1.037496 1.026208 P8A:Endoscopy - arthroscopy 1.037496 1.026208 P8C:Endoscopy - upper gastrointestinal 1.037496 1.026208 P8C:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8E:Endoscopy - colonoscopy 1.037496 1.026208 P8E:Endoscopy - cystoscopy 1.037496 1.026208 P8F:Endoscopy - bronchoscopy 1.037496 1.026208 P8H:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy - laryngoscopy 1.037496 1.026208 P9B: Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicar | P5D:Ambulatory procedures - lithotripsy | 1.029260 | 1.029260 |
| P6B:Minor procedures - musculoskeletal 1.037496 1.026208 P6C:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures - other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - other 1.037496 1.026208 P8A:Endoscopy - arthroscopy 1.037496 1.026208 P8B:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8D:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8E:Endoscopy - colonoscopy 1.037496 1.026208 P8F:Endoscopy - bronchoscopy 1.037496 1.026208 P8F:Endoscopy - bronchoscopy 1.037496 1.026208 P8H:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy - laryngoscopy 1.037496 1.026208 P8I:Endoscopy - other 1.037496 1.026208 P9B: Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests - routine venipuncture (non-Me | P5E:Ambulatory procedures - other | 1.029260 | 1.029260 |
| P6C:Minor procedures - other (Medicare fee schedule) 1.037496 1.026208 P6D:Minor procedures - other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - other 1.037496 1.026208 P8A:Endoscopy - arthroscopy 1.037496 1.026208 P8B:Endoscopy - upper gastrointestinal 1.037496 1.026208 P8C:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8E:Endoscopy - colonoscopy 1.037496 1.026208 P8E:Endoscopy - costoscopy 1.037496 1.026208 P8F:Endoscopy - bronchoscopy 1.037496 1.026208 P8G:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy - laryngoscopy 1.037496 1.026208 P8I:Endoscopy - other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests - routine venipuncture (non-Medicare fee Schedule) 0.929914 0.929914 T1B:Lab test | P6A:Minor procedures – skin | 1.037496 | 1.026208 |
| P6D:Minor procedures - other (non-Medicare fee schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - other 1.037496 1.026208 P8A:Endoscopy - arthroscopy 1.037496 1.026208 P8B:Endoscopy - upper gastrointestinal 1.037496 1.026208 P8C:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8D:Endoscopy - colonoscopy 1.037496 1.026208 P8E:Endoscopy - cystoscopy 1.037496 1.026208 P8F:Endoscopy - bronchoscopy 1.037496 1.026208 P8G:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy - laryngoscopy 1.037496 1.026208 P8I:Endoscopy - other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) 0.929914 0.929914 T1B:Lab tests - automated general profiles 0.929914 0.929914 | P6B:Minor procedures - musculoskeletal | 1.037496 | 1.026208 |
| schedule) 1.037496 1.026208 P7A:Oncology - radiation therapy 1.037496 1.026208 P7B:Oncology - other 1.037496 1.026208 P8A:Endoscopy - arthroscopy 1.037496 1.026208 P8B:Endoscopy - upper gastrointestinal 1.037496 1.026208 P8C:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8D:Endoscopy - colonoscopy 1.037496 1.026208 P8E:Endoscopy - cystoscopy 1.037496 1.026208 P8G:Endoscopy - bronchoscopy 1.037496 1.026208 P8H:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy - laryngoscopy 1.037496 1.026208 P8I:Endoscopy - other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests - routine venipuncture (non-Medicare fee Schedule) 0.929914 0.929914 T1B:Lab tests - automated general profiles 0.929914 0.929914 | P6C:Minor procedures - other (Medicare fee schedule) | 1.037496 | 1.026208 |
| P7B:Oncology – other 1.037496 1.026208 P8A:Endoscopy – arthroscopy 1.037496 1.026208 P8B:Endoscopy - upper gastrointestinal 1.037496 1.026208 P8C:Endoscopy – sigmoidoscopy 1.037496 1.026208 P8D:Endoscopy – colonoscopy 1.037496 1.026208 P8E:Endoscopy – cystoscopy 1.037496 1.026208 P8F:Endoscopy – bronchoscopy 1.037496 1.026208 P8G:Endoscopy – laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy – laryngoscopy 1.037496 1.026208 P8I:Endoscopy – other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests – routine venipuncture (non-Medicare fee schedule) 0.929914 0.929914 T1B:Lab tests – automated general profiles 0.929914 0.929914 | | 1.037496 | 1.026208 |
| P8A:Endoscopy – arthroscopy 1.037496 1.026208 P8B:Endoscopy - upper gastrointestinal 1.037496 1.026208 P8C:Endoscopy – sigmoidoscopy 1.037496 1.026208 P8D:Endoscopy – colonoscopy 1.037496 1.026208 P8E:Endoscopy – cystoscopy 1.037496 1.026208 P8F:Endoscopy – bronchoscopy 1.037496 1.026208 P8G:Endoscopy – laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy – laryngoscopy 1.037496 1.026208 P8I:Endoscopy – other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests – routine venipuncture (non-Medicare fee schedule) 0.929914 0.929914 T1B:Lab tests – automated general profiles 0.929914 0.929914 | P7A:Oncology - radiation therapy | 1.037496 | 1.026208 |
| P8B:Endoscopy - upper gastrointestinal 1.037496 1.026208 P8C:Endoscopy - sigmoidoscopy 1.037496 1.026208 P8D:Endoscopy - colonoscopy 1.037496 1.026208 P8E:Endoscopy - cystoscopy 1.037496 1.026208 P8F:Endoscopy - bronchoscopy 1.037496 1.026208 P8G:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy - laryngoscopy 1.037496 1.026208 P8I:Endoscopy - other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) 0.929914 0.929914 T1B:Lab tests - automated general profiles 0.929914 0.929914 | P7B:Oncology – other | 1.037496 | 1.026208 |
| P8C:Endoscopy – sigmoidoscopy P8D:Endoscopy – colonoscopy P8E:Endoscopy – colonoscopy P8F:Endoscopy – cystoscopy P8F:Endoscopy – bronchoscopy P8G:Endoscopy – bronchoscopy P8G:Endoscopy – laparoscopic cholecystectomy P8H:Endoscopy – laryngoscopy P8H:Endoscopy – laryngoscopy P8H:Endoscopy – laryngoscopy P8H:Endoscopy – other P9A:Dialysis services (Medicare Fee Schedule) P9B: Dialysis services (Non-Medicare Fee Schedule) T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) T1B:Lab tests - automated general profiles 1.037496 1.026208 0.929914 0.929914 | P8A:Endoscopy – arthroscopy | 1.037496 | 1.026208 |
| P8D:Endoscopy – colonoscopy 1.037496 1.026208 P8E:Endoscopy – cystoscopy 1.037496 1.026208 P8F:Endoscopy – bronchoscopy 1.037496 1.026208 P8G:Endoscopy – laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy – laryngoscopy 1.037496 1.026208 P8I:Endoscopy – other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests – routine venipuncture (non-Medicare fee schedule) 0.929914 0.929914 T1B:Lab tests – automated general profiles 0.929914 0.929914 | P8B:Endoscopy - upper gastrointestinal | 1.037496 | 1.026208 |
| P8E:Endoscopy – cystoscopy 1.037496 1.026208 P8F:Endoscopy – bronchoscopy 1.037496 1.026208 P8G:Endoscopy - laparoscopic cholecystectomy 1.037496 1.026208 P8H:Endoscopy – laryngoscopy 1.037496 1.026208 P8I:Endoscopy – other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) 0.929914 0.929914 T1B:Lab tests - automated general profiles 0.929914 0.929914 | P8C:Endoscopy – sigmoidoscopy | 1.037496 | 1.026208 |
| P8F:Endoscopy – bronchoscopy 1.037496 P8G:Endoscopy - laparoscopic cholecystectomy 1.037496 P8H:Endoscopy – laryngoscopy P8I:Endoscopy – other 1.037496 P9A:Dialysis services (Medicare Fee Schedule) P9B: Dialysis services (Non-Medicare Fee Schedule) T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) T1B:Lab tests - automated general profiles 1.037496 1.026208 1.037496 1.026208 1.037496 1.026208 1.026208 1.037496 1.026208 1.026208 | P8D:Endoscopy – colonoscopy | 1.037496 | 1.026208 |
| P8G:Endoscopy - laparoscopic cholecystectomy P8H:Endoscopy - laryngoscopy P8I:Endoscopy - other P9A:Dialysis services (Medicare Fee Schedule) P9B: Dialysis services (Non-Medicare Fee Schedule) T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) T1B:Lab tests - automated general profiles 1.037496 1.026208 1.026208 1.037496 1.026208 1.026208 1.026208 | P8E:Endoscopy – cystoscopy | 1.037496 | 1.026208 |
| P8H:Endoscopy – laryngoscopy P8I:Endoscopy – other 1.037496 P9A:Dialysis services (Medicare Fee Schedule) P9B: Dialysis services (Non-Medicare Fee Schedule) T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) T1B:Lab tests - automated general profiles 1.037496 1.026208 1.037496 1.026208 1.026208 1.026208 1.026208 | P8F:Endoscopy – bronchoscopy | 1.037496 | 1.026208 |
| P8I:Endoscopy – other 1.037496 1.026208 P9A:Dialysis services (Medicare Fee Schedule) 1.037496 1.026208 P9B: Dialysis services (Non-Medicare Fee Schedule) 1.037496 1.026208 T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) 0.929914 0.929914 T1B:Lab tests - automated general profiles 0.929914 0.929914 | P8G:Endoscopy - laparoscopic cholecystectomy | 1.037496 | 1.026208 |
| P9A:Dialysis services (Medicare Fee Schedule) P9B: Dialysis services (Non-Medicare Fee Schedule) T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) T1B:Lab tests - automated general profiles 1.037496 1.026208 1.037496 1.026208 0.929914 0.929914 | P8H:Endoscopy – laryngoscopy | 1.037496 | 1.026208 |
| P9B: Dialysis services (Non-Medicare Fee Schedule) T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) T1B:Lab tests - automated general profiles 1.037496 1.026208 0.929914 0.929914 | P8I:Endoscopy – other | 1.037496 | 1.026208 |
| T1A:Lab tests - routine venipuncture (non-Medicare fee schedule) 0.929914 0.929914 0.929914 0.929914 | P9A:Dialysis services (Medicare Fee Schedule) | 1.037496 | 1.026208 |
| fee schedule) 0.929914 0.929914 T1B:Lab tests - automated general profiles 0.929914 0.929914 | P9B: Dialysis services (Non-Medicare Fee Schedule) | 1.037496 | 1.026208 |
| | | 0.929914 | 0.929914 |
| T1C:Lab tests – urinalysis 0.929914 0.929914 | T1B:Lab tests - automated general profiles | 0.929914 | 0.929914 |
| | T1C:Lab tests – urinalysis | 0.929914 | 0.929914 |

| Appendix C Table 5 | | |
|---|----------|----------|
| T1D:Lab tests - blood counts | 0.929914 | 0.929914 |
| T1E:Lab tests – glucose | 0.929914 | 0.929914 |
| T1F:Lab tests - bacterial cultures | 0.929914 | 0.929914 |
| T1G:Lab tests - other (Medicare fee schedule) | 0.929914 | 0.929914 |
| T1H:Lab tests - other (non-Medica fee schedule) | 0.929914 | 0.929914 |
| T2A:Other tests – electrocardiograms | 1.037496 | 1.026208 |
| T2B:Other tests cardiovascular stress tests | 1.037496 | 1.026208 |
| T2C:Other tests - EKG monitoring | 1.037496 | 1.026208 |
| T2D:Other tests - other | 1.037496 | 1.026208 |
| Y1 :Other - Medicare fee schedule | 1.037496 | 1.026208 |
| Y2 :Other - non-Medicare fee sche | 1.037496 | 1.026208 |
| Z1 :Local codes | 1.037496 | 1.026208 |
| Z2 :Undefined codes | 1.037496 | 1.026208 |

Appendix D: OOPC Database

This appendix includes descriptions of the files generated for the OOPC database.

Record Layouts

For the pln_oopc file, there will be three records (three health status records) for every plan that is available in the MPF. If a plan has no data and is displayed in MPF, there will be three records with blank fields.

For the medigap_oop file, there will be three records (three health status records) for every state/simple plan type combination. For all states except MA, MN and WI, the simple plan types are the same. For MA, the simple plan types are MA1 and MA2. For MN, the simple plan types are MN1 and MN2. For WI, the simple plan type is WI1. If a plan has no data and is displayed in MPF, there will be three records with blank fields.

| Appendix D Table 1: Pln_oopc File | | | |
|-----------------------------------|---|--------------------------------|---|
| FIELD NAME | DESCRIPTION | EXAMPLE/FORMAT | NOTE |
| Contract_id | Contract ID | H9999/S9999 | |
| plan_id | Plan ID | 001 | |
| segment_id | Segment ID | 0 | |
| contract_year | Contract Year | 2013 | |
| hlth_ctgry | Self-Assessed Health grouping for OOPCs | (1)Excellent, (3)Good, (5)Poor | |
| Dbts | Average monthly total OOPC for those with diabetes, excluding drugs and Part D Premium. | \$ | Not Applicable to PDP (S Contract IDs) |
| Chf | Average monthly total OOPC for those with chronic heart failure, excluding drugs and Part D Premium. | \$ | Not Applicable to PDP (S Contract IDs) |
| Ahc | Average monthly total OOPC for those with acute heart conditions, excluding drugs and Part D Premium. | \$ | Not Applicable to PDP (S Contract IDs) |
| Dbts_drugs | Average monthly total drug OOPCs for those with diabetes. | \$ | |
| Chf_drugs | Average monthly total drug OOPCs for those with chronic heart failure. | \$ | |
| Ahc_drugs | Average monthly total drug OOPCs for those with acute heart conditions. | \$ | |
| dental_services | Average monthly dental OOPC in health group. | \$ | Not Applicable to PDP (S Contract IDs) |

| Appendix D Table 1: Pln_oopc File | | | |
|-----------------------------------|---|----------------|---|
| FIELD NAME | DESCRIPTION | EXAMPLE/FORMAT | NOTE |
| part_c_prm | Monthly Part C premium for plan. | \$ | Not Applicable to PDP (S Contract IDs) |
| inpatient_care | Average monthly inpatient OOPC in health group. | \$ | Not Applicable to PDP (S Contract IDs) |
| part_b_prm | Medicare Part B Premium | \$ | Not Applicable to PDP (S Contract IDs) |
| plan_deductible | Average monthly plan deductible cost in health group, excluding drug deductible. | \$ | Not Applicable to PDP (S Contract IDs) |
| all_other_utilization | Average monthly all other services OOPC in health group. | \$ | Not Applicable to PDP (S Contract IDs) |
| part_d_prm | Part D Premium for Plan (=\$0 for MA Only plans) | \$ | |
| part_d_drugs | Average monthly Part D Drug cost in health group, including deductible, excluding premium. (For MA Only Plans=Original Medicare cost) | \$ | |
| brkdwn_tot | Average monthly total OOPC cost in health group: Sum of dental_services, Part_c_premium, Inpatient_care, part_b_premium, plan_deductible, all_other_utilization, part_d_premium, and part_d_drugs | \$ | |

| Appendix D Table 2: Medigap_oop File | | |
|--------------------------------------|---|-----------------------------------|
| FIELD NAME | DESCRIPTION | EXAMPLE/FORMAT |
| state_cd | State Abbreviation | VA, MD, MA, CA |
| simple_plan_type | Plan ID | A |
| cntrct_yr | Contract Year | 2013 |
| hlth_ctgry | Self-Assessed Health grouping for OOPCs | (1) Excellent, (3) Good, (5) Poor |
| Dbts | Average monthly total OOPC for those with diabetes, excluding drugs and Part D Premium. | \$ |
| Chf | Average monthly total OOPC for those with chronic heart failure, excluding drugs and Part D Premium. | \$ |
| Ahc | Average monthly total OOPC for those with acute heart conditions, excluding drugs and Part D Premium. | \$ |
| Dbts_drugs | Average monthly total drug OOPCs for | \$ |

| Appendix D Table 2: Medigap_oop File | | |
|--------------------------------------|--|----------------|
| FIELD NAME | DESCRIPTION | EXAMPLE/FORMAT |
| | those with diabetes. | |
| Chf_drugs | Average monthly total drug OOPCs for those with chronic heart failure. | \$ |
| Ahc_drugs | Average monthly total drug OOPCs for those with acute heart conditions. | \$ |
| Drugs | Average monthly total OOPC for drugs in health group. (Original Medicare costPremium = \$0) | \$ |
| dental_services | Average monthly dental OOPC in health group. | \$ |
| medigap_prm | Monthly Medigap premium for plan. | \$ |
| inpatient_care | Average monthly inpatient OOPC in health group. | \$ |
| part_b_prm | Medicare Part B Premium | \$ |
| plan_ddctbl | Average monthly plan deductible cost in health group. | \$ |
| all_other_utilization | Average monthly all other services OOPC in health group. | \$ |
| brkdwn_tot | Average monthly total OOPC cost in health group: Sum of drugs, dental services, Medigap_premium, inpatient_care, part_b_premium, plan_deductible, and all_other_utilization. | \$ |

| List of Acronyms | |
|------------------|--|
| AHC | Acute Heart Condition |
| ASC | Ambulatory Surgical Center |
| BASEID | Unique Person Identification Number |
| BETOS | Berenson-Eggers Type of Service |
| CBC | Center for Beneficiary Choices |
| CHF | Congestive Heart Failure |
| CMS | Centers for Medicare & Medicaid Services |
| CORF | Comprehensive Outpatient Rehabilitation Facility |
| CT | Computed Tomography |
| CY | Contract Year |
| DCG | Diagnostic Cost Group |
| DUE | Dental Utilization Event |
| DME | Durable Medical Equipment |
| ECG | Electrocardiography |
| EEG | Electroencephalography |
| EKG | Electrocardiography |
| ER | Emergency Room |
| ESRD | End-stage Renal Disease |
| GI | Gastro-intestinal |
| HCPCS | Healthcare Common Procedure Coding System |
| ННА | Home Health Agencies |
| HCC | Hierarchical Condition Category |
| НМО | Health Maintenance Organization |
| ICL | Initial Coverage Limit |
| IPE | Inpatient Event |
| MA | Medicare Advantage |
| MA - PD | Medicare Advantage with Prescription Drug |
| MCBS | Medicare Current Beneficiary Survey |
| MDS | Minimum Data Set |
| MOC | Medicare Options Compare |
| MPE | Modern Provider Event |
| MPF | Medicare Plan Finder |

| List of Acronyms | |
|------------------|---|
| MRI | Magnetic Resonance Imaging |
| MSA | Medicare Medical Savings Account Plans |
| OACT | Office of the Actuary |
| OM | Original Medicare |
| OOPCs | Out-of-pocket Costs |
| OSP | Office of Strategic Planning |
| ORDI | Office of Research, Development & Information |
| OT | Occupational Therapy |
| PBP | Plan Benefit Package |
| PCP | Primary Care Physician |
| PDE | Prescription Drug Event |
| PDP | Prescription Drug Plans |
| PET | Positron Emission Tomography |
| PHI | Premium Hospital Insurance |
| PME | Prescribed Medicine Event |
| PPS | Prospective Payment System |
| PT | Physical Therapy |
| RIC | Record Identification Code |
| RICDUE | Record Identification Code - Dental Services |
| RICIPE | Record Identification Code - Inpatient Hospital |
| RICIUE | Record Identification Code - Skilled Nursing Facility |
| RICMPE | Record Identification Code - Medical Provider Events |
| RICPS | Record Identification Code - Personal Summary |
| RXCUI | RxNorm Concept Unique Identifiers |
| SNF | Skilled Nursing Facility |
| SNP | Special Needs Plan |
| VA | Veterans Administration |